## ANERUGAN

# Jom Journal of Mining,  

NEW REDUCTION PROCESS AND MACHINERY.
The engraving upon this page of the Joural of Mining is a representation of machinery for the reduction of gold and silver ores, recently patented by J. A. Hitehings, of Denver, Colorado Territory. It is made up of scceral distinct machines throngh which the ores and their products pass and are consecutively treated. The machincry and process are thus described by the inventor:
Figs. 1 and 10 exhibit an improved stamp battery its point can be scen in the drawing. It and Fig. 2 are covered in, to proteet them from dust.
Fig. 2 is a pul-verizer-a series of iron rollers, geared to turn in one direction, which reduee the ores to fine powder.
Fig. 3 is a circular fire-proof furnace, with lined flues and dampers. This patent covers also an inelined shaking Pan, and the use of hot water therewith, not shown here. Fig. 8 , in the side of the furnaec, is a retort, in which to treat amalgam.

Fig. 7, over the sluice, $d$, is a light iron eylinder, peiforated at one end, to sow into the powdered ores deoxydizing powders previous to
roasting. The patentee uses a cheap compound that effectnally does this work on the worst ores, by using the after treatment therewith, herein practiced.

Fig. 4 is of two parts-a copper vessel, $a$, filled with cold water, and an iron amalgamator and screw stirrer, $b$. Mineral oil, the worst bane of amalgama tion, is floated off by the waste pipe, $c$, and the contained copper is here separated from the ores
Figs. 5 are different views of an improved arastra, where the ores are ground with quicksilver. This, and

Fig. 4 have dome casings and pipes to carry all vapors to the smoke flue of the furnace.
Fig. 6 is a caddy-shaped amalgamator of shectiron lined with mercury-coated copper plates, and provided with stirrer.
The smoke flue passes into a rescrvoir of water, Fig. 9, to a dry ehamber, $e$, thence through a shower bath, _-_, bencath the chamber, to the chimney, $f$,
and the open air. This apparatus condenses flourgold and inercury vapors, which are drawn of by the pipes, $g$ and $h$ : also sulphur and arsenic, which are taken by the door from the dry chauber. Waste water goes out at the pipe, $i$. Cold water is fed to the battery, when wauted, by the pipe, $j$, and to Fig. 4, by the pipe, $k$. Ores not treated by fire, pass from Fig. 2 to Fig. 4, direct. The capacity of such a machine as here represented is about equal to a twenty-stainp mill, and nsual appendages; its cost abont as much ;

21, respectively, to the ton. Separate pieces were taken and worked, whieh may aceount for the difference between the minimum and maximum results. There is no portion but that will shuw largely in the precious metal. Until recently, no particular notice has been given to thesedeposits in Tuolumne county, but since they have shown their great value, we understand many locations have boen made, and we hope their enterprise may be rewarded with claims that will riehly recompense then for every outlay.

We shall be glad to hear of tests from otherclaims in that eounty or elsewhere.-Ex.

## Moulds for Casting Steel, Iron, \&c.

Mr. Frederick Trachsel, analy tical ehemist, and Mr. Wm. Hall, brass founder. of Manehester have patented certain improve ments mado by them in mould ing for casting steel, iron, and other metals According to the usual process of moulding for easting, it is well known that sand is employed, which is more or less siliceous, the siliea of which when submitted to the melting temperature of certain metals becomes fused and combine with the said me-

HITCHING'S IMPROVED REDUCTION MACHINERY.
weight abont eight tons. All descriptions of gold, silver or copper ores can be treated by it, cither wet or dry, with or without mercury, and with or without fire. Any of our readers desiring further information, can obtain it, by writing (and enelosing stamp) to Mr. Hitchings, 99 Bond strect, Cleveland, Ohio.

## The Gold Cement Claims of California.

As we predicted long since, those interests are attracting the attention of capitalists, and it is our greatest pleasure almost daily to learn of new developments, giving abundant promise for continued and active work. Onr gold quartz interests are far superior to any known in the world, but the cement deposits proving so rieh, scem to offer great inducements for surplus capital. Our young friend Kearsing has had several more tests made of the eement from his elaim in Tuolumno county, giving most encouraging results- $\$ 458, \$ 736, \$ 1,071, \$ 1,-$
tal. This inven-
tion eonsists in substituting for the aforesaid sand a material which does not substantially contain free silica, lime or other material which will fuse at the melting temperature of the metal to be cast. With this view, materials with an aluminous base, having been previously reduced to a stato of powder, are employed in place of the usual sand, and after the ordinary manner of moulding. As illustrative of the invention, coal-shale or fire-clay, ground when dry to a powder, may be used as above described. - Briuish Exchange.

## Southern Coal.

The attention which is being paid to coal mining in Virginia, Carolina, Georgia and other Southern States, is very astonishing, considering the little attention which has been given to these pursuits previously. The Riehmond Enquirer says that the natural and undeveloped wealth of the Great Kanawha
region " is wonderful. Its deposits of cannel coal, or splint coal and of bituminous coal, surpass all Its salt mines, its iron ore, its fire clay, its timher, Its salt mines, its iron ore, its fire clay, its timher, particularly attractive to capitalists. New river and Gauley river, Elk river and Coal river, are the chief tributaries of the Great Kanawha; and these five rivers drain the greater portion of trans-Allegheny Virginia." It adds that " leading eapitalists in New York, England and France own large tracts of valuahle coal and mineral land in the Great Kanawha region. The coal question in England and France is becoming one of magnitude. France gets its supply of coal from England, and such at present is the vast amount of coal taken trom the English collieries for home consumption and foreign exportation, that the London papers asent the maumfacturing interests ar becoming uncasy athit the exhaustion of English oal, he motive por to tein tactorics. Po is said at the present rate of consug in in nd exporting it to Lurope, he coaldeposits of trea britistics show that the exports of coal culm and cin ders from Great Britain tor the first four months or the current year reached $2.915,877$ tons. In the cor responding period of 186.5, the exports were but responding period of 1865 , the exports were but
$2,674,049$ tons. The increase has been principally in the exports to Russia, France, Spain, Italy and other continental markets, in consequence of the imminence of war. France took in the four months 576,471 tons, having taken during the corresponding period of 1860 but 501 ,ow tons. We are Vey aware that Virginia, Tennessee, and some of the other Southern States, can become competitors with Pennsylvania in the course of time. They have the material. All which they need is labor and capital. The latter they will have by-and-by, thongh as agriculture is now and must long remain more profitable than mining, the latter win soon reach the ha nad that these States are turning theretten gion to mining and that they are determined to that we have done and to grow by such means as have proved profitable in our case. They hase hittertu songht merely those crops whicb lay on the surface, and have lett the coal and iron to be developed by time and by fresh opportunities. They are now likely to look more thoroughly into the root of the matter, and we shall not be surprised to find both Virginia, Tennessee and Georgia striving to emulate Pennsylvania in the amount of their annual production. If they advance according as they have begun, no calculation can tell where they will end, or how much our national wealth will be auguented by means ying near at hand. The coal development of the Western States has also to be considered. They are doing what they have never before done, and are striving to advance their original welfare. Ohio, Illinois, indiana and other States are at work. We can aflord to welcome their efforts. The market is large enough for us all, and their supplies will ont var our ertunes And as all wellare is limited by this ing our andes. And a welare isly coumy hope that the Southern and South-western States will grow from the mument when they make coal min ing an important branch of their business. So tar from opposing their efforts, we give them God-speed in all which they essay to do, and shall find no greater pleasure than in the fact that they are making themselves true rivals of Pennsylvania, and providing their several communities, as we know they can. Every one of these practical efforts is favorable to the future, and just in proportion as the States to which we refer develop their natural wealth we shail have coadjutors in the great occupation which is now more essential to us than any other.-Phila. North American.

The Miner.
by dames bussul nowen Down mid the tangled roots of thing 1 seek for hat whieh giveth wings,


 In darkness, all alone and weak;
Such loss eve exin in He wer won.
For tis the sants own Son I seek. The earth, they nurmur, is the tomb
Tlat vainly sought his life to prisou Why grovel foger in it it gloon py
He is not here ; He bath arisen. More hie for me where he hath lain
Hilden, while ve believed him


 Day servant of our rondd
If Himi Ifind uot, yet 1 fidd If Hime I Ifdid not, yet thad The glimpse, the surety uadethined, The unquenched ardor of the
Happier to chase a flying goal. Happier to chase a filying goal. To guess the Soul within the soul,
Thas to be lord of what remains.

## fytining §ummaxy.

## Michigan.

Geologists assert that Michigan has a coal field of 7.000 square miles ; but a great abundance of excellent fire-wood has rendered Coal comparatively unnecessary for present use. As yet it is produced for Blackman Jaly two localities. There are two mines in for the year ending May, 1864 and one mine in Cale donia, shia wasse county, producing in the same period $2,400,000$ ponnds, making an aggregate or $27,089,143$ pounds, or 338,614 bushels, of 80 pounds to the hushel. in 1854 there were but eight persons emthen the annnal produet was but 120,000 pounds, or then the annnal prodnet was but 120,000 pounds, or
1,500 bushels. Now they mine 225 bushels where they mined but one bushel..... From the Portage Lake Gazette of Sept. 20th, we learn that the total Angust product of the district was 532 tons 1722 pounds. Mrise the August products of the Quincy, Haneock, isle Royale, Grand Portage. and Albany and Boston products these are now given as follows: Frankliu mine -mass, barrel and stamp, 122 tons, 300 pounds ; Pewabie mine-mass, barrel and stamps, 164, 115 pounds, or 82 tons, 115 pounds ; Huron mine-mass and barrel. 108,106 pounds $;$ stamps, 54,565 ponnds ; total, 162,671
pounds or 81 tons, 671 pounds. The proluct of the pounds or 81 tons, 671 pounds. The produet of the
Cliff mine in July was $126 \frac{1}{2}$ tons. and must have heeu Cliff mine in July was 126 $\frac{1}{2}$ tons. and must have heeu
about the same in Angust..... A friend writing from about the same in Angust...... A friend writing from
Rockland says: At the Mass mine there is a good show of copper ; the lode is twenty feet wide with goon now trying to the out one picce that I think will be now trying to take out one picce that Ithink will be from three to four tons. This is the last vein intertions have been commenced on Section Twenty-three immediately adjoining the famons Calumet property and the conglomerate has been exposed and found as rich in copper as on the adjoining property. The name
or the new mine we have heard mentioned as the Heela of from thiry is coming in from the calumet at the rate now delivered at the Portage Lake Sunelting Work over four hundred tons awaiting the completion of the new blast furnace for smelting. The show in the bottom of the open eut and pit is said to exceed any thing heretofore found, and appears to grow even richer a
they get down...... The products of the Huron mine as will he seen on reference to the returns published as wie se scen on reference to the reurns pubished able figure of eighty-one tons. Unless something exraordinary occurs, it may reasonably be expected that this month's product will fully equal if hot be a "rouser." The new finishing machinery is all in place, and only awaits the arrival and setting of three or four gear wheels to be set in operation
learn from the deferred annual report of the Albany and Boston Mining Company, that the high expectation formed of the Albany and Boston property, based on the letters and reports of Mr. Hague, together ${ }^{*}$ with several conterences with him at various times, have not been realized by the year's workings. The ex-
expectations were, that the lode would average three or four per cent. of ingot copper from the roch stamped. The result is a product of 1.33 per cent. about one-third only of what was anticipated. Th
discrepancy between expectations and result is counted for by the facts that a great deal of poor rock between the copper belt and sandstone was necessarily brought to the surface, and owing to the nse of of a large rock-hreaker, great quantities of poor rock found their way to the stamps $\cdots \cdots$ From the Ontonagon Mincr of Sept. 22 d we condense the folquette and Escanaba are thus reported by the company's agents :

Lake Superior Iron Co
 Jackson Iron Co.........
Do do
Po . . A. Angeline Iron Co.
Cleved Iron Mining Co... Cileve,
Do.
*Shipped via Marquette. + Shipped via Escanaba. The shipments of ore over the Bay de N. \& M. Rail road to Sept. 15th, 1866, were
Jackson Iron Company...
Cleveland
Cleveland
Marquette
Marquette
Lake Superior
Pitts $\&$ L. Angeli
Pitts \& L. Angeline
Edwards (P. \& L. A.
Washington
New Engl
Parsong

$\begin{array}{r}131,981 \\ 1,148 \text { tons. } \\ \hline\end{array}$
Pig Metal: to Sept. 15th.
1,148 tons.
The known value of many of the mines on the Evergreen Range, whenever and wherever wrought on the
course of their main lodes, is proverbial. Among these, there is scarcely an exception along the entir
minent place. One point, near the summit of the southern escarpment of the bluff, was chiefly mined in 1851, 52 and $\% 3$, and with almost unparalleled result as to the quantity of copper raised. On visiting ar
mine the rangements making for re-opening the old works at this point. An engine, formerly in use at the Algo mah mine, is being placed on the burrow for this pur pose. Judging by past results, and hy what may now be seen of the lode at various accessible points, we enticipate most favorable returns when work is re-
sumed. The large course, a little south of this, on whed. The large course, a little south of this, on
which the present mine is opened, is showing very which the present mine is opened, is showing yery which the present mill of ten heads is capable of producing, under favorable circumstances, a ton of mineral per month. With the western openings under eral per month. With the western openings under we think the tatec will take rank with the other work ing mines of that ragre. At the Mass mine the two nasses remored from the :" Champion" lode last week are not yet weighed, but may be safely estimated at wo and three tons caci. Besides these masses, there are also some two tons or more of rich barrel work on arface, enough in all tor a full charge at the Smelt ing Works. The air shatt is now about 10 feet in the rock, and is going down as fast as six irst class miner can sink it.... The August product of the Nationa mine was about $35_{2}^{1}$ tons.... It is not at all surprising that they encountered a prime lode on the surface a the new M.. 3 shaft of the Opiua mine. Some ancient ure indications of cepper wherever found They aro are hication ther wherever theo The lode is about 20 feet wide at this point and very promising show for mineral..... At the llinne ota, several masies came down this week from the topes over the 6 th, 7 th and 13 th levels, weight from half a ton to $3,400 \mathrm{lbs}$, each . The largest mas ret brought down from the Caledonian mine eame on Tuesday-weight 4 tons 400 lbs ., quite pure, and cut on two sides......The last piece of the Evergreen mass came down on Wednesday P. M. Its weight was 4 tons $135 \mathrm{lbs}, \ldots .$. A correspondent of the Boston Commercial Bulletin writes: in the neighborhood o the Calumet mine are evidenees of work performed by miners in ancient times. Who these miners were, and how long since they worked, there is nothing to vaterwo sum 1 bla nants of fires built for the prpe of sten the ein rock mecessin the thefto hide and the relics all covered by the soil upon which grow anient forest trees. Whoever they were the knowledge they possessed was precise and accurate, for nowher have the traces of their labor been discovered where opper-bearing veins do not exist. It is evident that the copper must lave been transported to a distance, or in the mess-mines masses have been found exposed from which portions had been taken off, but with no attempt, exceping, in one instance, ot remove then entire, as vould liave been the case had it been in ended to use then at any near or convenient point. In most cases surface openings only have been found, but in one or two instances regular mining operations appear to have been carried on, shafts sunk and levels riven sixty or seventy feet below the surface. The irst discoyeries in the Calumet were made in one or hiese ancient pits, the carent of Which gave oceasion found at this point the soil ispond and ose fonk remoring it cuantities of stone hammers were found with beds of charcol besides varions Indian relics moceasin thongs of buffalo hide, \&c. Large beds of carbonate of copper were discovered in the soil hefore reaching the vein rock showing that there mase of copper had formerly existed. Boulders, detached from the vein rock, were also found partially exposed on the surface, and containing a large per centage or mineral. One of them, weighing more than two tons, was broken up and formed a part of the first lot melted, which yielded 21 per cent. ingot copper. When the vein was exposed it was found to be a conglomerate rock, filled with copper, not in masses but thoroughly impregnated. which, on smelting, proved to contain from 15 to 20 per cent. pure metal. An isea of its astonishing richness can be formed when it is remembered that 4 per cent. is usually considered
an extraordinary return. la half an hour after the an extraordinary return. $1 n$ half an hour after the
first trial of stamping was commenced, it was estimated that there was half a ton of copper stamped ont of the rock. and iu fifty-five minutes one ton of 80 per cent. mineral was obtained This was the largest yield ever returned in stamping since the commencement of operations in this country. During the past winter this pit was suak to the depth of 29 feet. The character of the ore is difilerent from that of any other in the country. In July last various buildings were being put up, costly machinery was already on the ground, and roads were heing completed to Torch place we reach the Draveling towards the later bave been expended, tie only visihle results heing a few comfortable log houses, a blacksmith shop and one or two abandoned horse whins. We next pass pended. We now come to the Alhany and Boston,
the location of which was set off as a dividend by the Mineral Land Company in the year 1860. In the trial openings were cruslied at the Huron Stamp Mill, trial openings were crusted at the thron stamp Min, This flateriug result encouraged the wealthy proprietors to prosecute the work with great vigor, and as a beginning a series of Blake's rock breakers were used preliminary to stamping with a set of Gates' stamps. It was now, however found that the rock yielded less than 2 per cent. During the present summer the expenses on the mines have been greatly reduced; they has been a elange in the management, and at present it is said that the produce more thin pays expense Next to these, is the St. Mary's mine, work upon which las been suspended during the past two years and an outlay of $\$ 10,00$, Nexicomes the Eaward 000 , respectively, have been suuk

## Montana

The Virginia City Democral of Sept. 6th says: We learn that times are very brisk at Silver Bow and a goodpdeal of gold is being taken out.
Rocker City, in two miles of Silver Bow, is full of miners, and all doing well. Highland, twenty miles distant from Silver Bow, is a new gulch, and there is a stampede to that place. The diggings are said to be rich, and fully 1000 miners are there opening and working claims, which are yiclding big money. There is new life in the neighborhood of these dig. gings, and all who have claims hold them at a very high price. . . . . The Virginia City Post of Sept 8th contains the following: The Alamed lode was discovered in 1864, by Messrs. Crawford and Farron. At that time, Mr. Gilbert assayed a ton of the quartz, which produced $\$ 2,250$ in gold to the ton, and there was silver in addition to this. A tunnel about one hundred and fifty feet in length has been excavated in the side of the hill, which is chiefly composed of rock. A Shaft has been sunk to the depth of twenty-
five feet. Every analysis that has been made siows the feel. Jeary analysis that has been made siows that this lead promises to equal, if not surpass, the It is loeated about two miles west mine in Nevada. we understand that a mill will be ereeted upon, it in we understand that a mill will be ereeted upon it in McCormick, we learn that diggings have been struck between his place and Helena, on a braneh of Fish Creek, in the Silver Star district. Prospects have been obtained which goto show that the guleh is the richest discovered since the discovery of Alder. Mr. Nat Davis started for the new Eldorado, yesterday, and from him we expect to learn more about its richness and extent. . . . . . Dr. Hopkins, who is largely interested in quartz in the Bannack district, came into town on Wednesday last, and from him we learn that the Dacotah No. 4, in that district, is now developed so thoroughly that there is not a probability of a
doubt but that the stockholders will receive heavy doubt but that the stockholders will receive heavy
divideuds in the future. The shaft on this lode has divideuds in the future. The shaft on this lode has
becn sunk to the depth of three hundred feet, and is now one hundred and fifty feet througb, and below, what is thought to be the cap rock. The crevice at Hoptins mill which in width. The Butterfield and Hopkins mill, which is fully for some two or three weeks past, and there arc still forty cords of rock ready for crushing, which the Doctor thinks will make a great many little gold brick. . . . A letter from Highland district, Deer Ledge county, Aug. 28, says: The gulch is turning out very well as far as prospected. On the discovery claim, one week ago, the discoverers took out a nugget weighing thirty-four dollars and twenty cents, and have, on an average, one dollar to the pan since that time. On number niueteen, they have, on an average, three dollars to the pan; and on number seventeen, they beat the discoverers by taking out one nugget weighing thirty-six dollars, lacking twenty cents, and another weighing twelve dollars. On every claim where they have struck gravel, they have obtaiued prospects of from three to twenty-five cents to the pan, and not down over eight feet. I cane here were disgsted and thought it was another Elk and Bear gulch; but such is not the case. 1 think, as well as others, that this gulch will turn ont as good as even old Alder creck did-in proof of were takeu out of Alder. I do not wish to run down the Alder creek digzings ; but that is our criterion. Our quartz leads here are not to be beaten in the country. Out of a piece of rock no larger than a hazel-nut, we have obtained one grain and a half of pure silver; and there are two gold leads that you crevice. . . A A letter from Bannack, Aug. 29th, says: The Limhin stampede is at an end. It turnsout that the new diggings will not pay much over wages, yet some are preparing to mine and winter there, but most have returned to Bannack to pursue their legitimate business. Our strects are not deserted, but every day adds to the progress that is being made in our minixg and business affairs. The resources of
this portion of Montana are unequalled. Everything
that is needed for mining is here in abundance Wood and water, fire, and common clays abound, and Bald leads of gold and silver here, at Rattlesnake and are at work who will, ere long, brove any, and the men be based on sound reason. A train of ten wagons, arrived this evening with Prof. Eaton's outfit formining purposes, for the New York and Montana Mining and Discovery Company, consisting of three complete sets of furnaces, one iron foundry, and tools and lathe for a machine shop. Prof. Eaton is the superintendent of this company, and has everything ready to put up the furnaces at once. He has manuac ured fire brieks of very superior quality and goou comm 1 kl , and al his materal is ced , be sides having plenty or goor wort. Ho has, in mining and preparing to put up his furnaces. The Helena Republican states that large deposits of coal have been discovered on the Dearborn, near Paul Vennette's, and about forty miles from Helena. it lies in the form of a ledge, which is three or four feet in width. It is well known that the Upper Misof the cold not be navigated many years, on account addition to those which are already known to exist, will supply the boats with fucl and make steam.
A letter from Helena, Aug. 2t th says: The miners in this vicinity, are doing well, and in a number of small outside gulches, the stuff is found in paying quantities. Mitchell's gulch, near Montana City, is prospceting from twelve cents to two dollars and a hal to the pan, and sluieing will be commenced there in a few days. The bars on the Missouri river are also reported rich. The big ten-mile ditelh, about sixtceu miles long, will be in a condition to supply this Hend end
The Heleua Nut, or sept. 1st, contains the following. Without any design to influence the mind of merits, we believe that it is the richest mineral region in the world. The vast number of gold and silver lodes; the only tin lode or mine everdiscor ered in North America; the purity and richness o the copper ore; the vast bed of saltpetre discovered on the Madison; the stone coal near Benton and the Madison river; the fine building roek and marble quarries in different parts of the territory ; the navigable rivers heading within our limits, capable of carrying on a commerce to and from the great oceaus on the glove-all these must eventually make this one of the greatest and wealthicst States of the Union. It is true, our quartz lodes are but partially developed but when the necessary enterprise, labor and capita shall have been expended in the work, all our anticipatious will be more than verified. The great wealth or this country is to be found in the partially devel extent. Mils and machinery, men of science and skill, of mens mut do this, work ther been commenced there miles or more already erected or in the course crection, and there is room for four hundred. the country improves, as living becomes cheap and A "Montana Boy" writes from Confederate Hills, Aug. 20th : Immediately opposite Ne York, on Trout Creek, is the newly laid out town of Brooklyn, fast growing into importance from the number of mills erected tor the reduction of quartz Messrs. Simpson \& Co's thirty stamp mill will be completed, it is thought, and running by the first of eptember. Messrs. Wessel \& Wilk's six stamp, be propelled by water power, will be set in motion by the 25 th of the present month. Two arastra have been at work, and the results, so tar as I can learn, are flattering ; two others are in process o erection and soon will be completed. The all-absorbing topic of conversation in New York is quartz The quart malady seems io be gencral thing nen wald ike Jeptha old, with pick and shovel in hat, their eyes cast upo the pround searching for some thing-the wall-rock of a well defined guartz lode Their slumbers are disturbed by visions of the auriferous and argentiferous metals seen in well define crevices, and unparalleled in richness, but wake to find their air casiles vanished, themselves only poor prospectors-victims to the plantom of the imaginaion. Others, whose delirium is of longer standing see, hear, and talk of nothing but (quartz. In regard to the leads in the vicinity of Trout Creek, in number, quality and richness, it is not necessary for me to particularize ; suthice it to say, those I have visited show out well, many with native gold, others silver galena, and the base metals. Hacer mining in Ne York gulch is about as it was three months ago scarcity of water is much complained or, and nece sarly retards miniug operations. In Kingsbury and Oregon gulches, a tew slinices are at work; so nd Mag-pie gulches I have noticed ruite a number nd over whos. Jay writes from Des Lodge, Aug. 20th: The great Salmon diggings are situated on a tributary of Salmon River, called Nap-
pies Creek, (the Bannack for gold,) about 160 miles in a S. S. West course from this place. This Creek is about thirty miles long, running through a sort of basin, in which the discovery was made. They prossoctar the creek for several miles, and re diggings, There are prospected, 6 or dollar a day muc, Billy Whastlesnal bars-tc etc., averaging trom one to two dollars to the pan, which can be easily worked, not having to convey water over 100 yards. Also, several gulehes-Bear. Track, Smith's, and others, prospecting about the siace as the main 60 me. Wen 60 men in camp, the balance having s, wen up in disgust, some golng to Boise, whor spend the wincer manyio Monkan, act tho test, feeling confident that they will yet be well re warded. There are some 60 claims taken up above discovery, which is about one and a lalf miles from the head of the Creek, and about 200 claims below.

## Idaho,

The Portland Herald, of August 25 th says: The tunnel diggings latery found iu Idaho have stimulated all those with capital enough to purchase their sapphes, to commence prospecting on the numerous hill and bars for like diggings. A large number of these and others have already been crowned with suceess, coveries have completely revolutionized the busines of miuing in 1daho, and all have gone to work with renewed vigor, well satisfied that their labors woul be crowned with suceess. Placerville, one of the firs cetting up whit, we numerous bars and h, is again it are unfoldiug thei lididen treazur in greate tities than ever The famed California guleh han whieh has already yielded its hundreds of thersand is now tunneled ninder, and diggings rieher by far thau those on the surfiee, are now being daily worked . "Mining progress," says a correspondent of th Tribune wriling from Owyliee, August 26th, "is very hattering. Many discoverics have been made in this mouth. On War Eagle Mountain two Germans have discovered a ledge of excellent roek. Nearly one year argo, they commenced searel for it by observing he large quantity or rieh "float quartz in the vicin15. They did not have a cent to begin with, and dur ing the whole period of prospeeting they supported hemselves and kept their tools in repair by pounding mortar, and amalgamating it in a common gold-pan. mortar, and amalyamating it in a eommon gold-pan. rein in the ricinity in which they found it It tonishing to go and view the shatts sunk, cuts and tunnels excavated by these faithful and patient men ust think of miners proeuring all expenses out of uri, sunburnet roeks that would scarcely exce ive in a common tent, do their own cooking and washing, and the reader can in a measure appreciate ninderstand the privations and labors of those who find aud exhune the preeious metals. These men, many of them refned and ambitious, deprive themselves of every luxury and association which they rave to make lire desirable. It is a life or the most absolute seli-dc.in. . but real actors-like my nearly understand the department of industry, can I lave unted development of the Poorman and ean salely cluallenge the world to show its equal dison ered. Many deemed it a surface pocket, but the main shaft is down 150 feet, and solid flakes and chunks of ilver as plentiful is eyer reported. In the north shaft, which promised little at the surface, the quartz is much deeomposed, and is perfectly yellow with free gold : while at the south one (over a hundred feet distant) pure siver and sulphurets of silver are abundant. At intermediate points pure gold and silver are found in the same piece of ore. As far as the ledge has been openea, it meets the expectations of the most enthusiastic. The Cosmos company have recently purchased a ledge or immense valuc that was discoverea in 1803, but not enough labor expended upon to give no san anty records. Poornan an coll the "Siver Cord" thourb it Poorman, ave bern named "G Golden Cord", though it prospeeted, it yields bullion worth 88 to 810 per ounce. Twenty-five thousand dollars was paid for 600 feet, and 1 venture the assertion that the ledge will have paid for itself and current expenses in six weeks from the day of purchase. In some of its features, it resembles the Poorman, and I believe is of the same family of veins. It has considerable decomposed quartz that wit yed from $\frac{2}{3}$ to $\frac{1}{2}$ ounce of gold to the pound. The ledge averages fully $2 \frac{1}{2}$ feet between solit casings, and coutains a continuous gold belt of 10 inclies in width, in which free gold is visible in every pound of ore. Other very rich develop-
ments are reported, though I have made no personal ments are reported, though I have made no personal instilled in my mind a spirit of caution and unbelief in mining reports, partieularly where they are highly in mining reports, partieularly where they are highly has greatly revived the old spirit of '49 quar 52 With all this prospective wealth for our whole country,
and $\dot{O}$ wyhee in particular, the population is discontented and unsocial. It is composed of contributions Irom all natons, and of all grades of
all intent upon aceumulating a foriune.

## Ceorgia.

A correspondent writes from Dahlonega, Lumpkin connty, Sept. 13 th, to the Times: "Vein mining" is the type of the gold disease which is now most prevalent, and hitherto very little known in these
parts. 1t is now very prevalent and active, developing itself in an irruption of machinery and in the most daring liberties with the streams and watercourses. The Jones vein, abont six or eight miles north of Dahlonega; the Pigeon Roost vein, upo whieh Mr. Pride's company are making great preparations to operate, between three and four miles Creek, near the mall loding to Auraria; the "Battle Branch" vein, one and a half miles sonthwest of Auraria, on the Etowah river; the 1,052 and 1,031 veins, so called from the numbers ol the lots on whict they are siulated, atout one mile from Dahlonega, on the Yoloolah Creek; the Rutherford vein, vein, one mile south ol the Rutherlord vein-are the spots where gold ts said to be most abundant, and where capital, skill, and enterprise are about to employed to add it to the available wealth of the na tion. There are other veins, said to be very rieh, in Forsyth county, thirty miles sonthwest of his place belonging to the Rutherlord Brothers and Mr. Roberts, and the Franklin vein, which belongs to Mr Dearing; and there are others near Aeworth, Marietta and Alatoona, on the Western and Atlantic Railroad. These veins are in the Gold Belt proper, but there are still others ontside it in Habersham, Hall Hart, Columbia and Carroll eounties, of the value and prodnetiveness of which many eneouraging stories are told. 1 have named above the principal veins which have most fame and most promise, but there are a number of others calted alter the persons owning them, sueh as the Lewis, Wood and Lord's munes, which are being worked, and with a fair prospeet of gieat success. The gold in these veins is mostly found imbedded in sulpluret of iron and quartz-sometimes in quartz only, and sometimes, but rarely, in slate. The veins, as I have already remarked, run parallel with the formation of the country, which is bortheast and southwest, corresponding with the Alleghanies. Eighty leet below feet below the spot where the first gold was found is the greatest depth that was reached by those who first essayed vein mining; therefore experienced miners, who have been aecustomed to mines 1,000 or 1,500 feet deep, confidently believe that, with proper machinery, and all the necessary appliances, the idea that the Georgia gold mines are all " pockets," will be exploded. Hitherto, also, the mode of extraeting the gold has been of the rudest and moss simple, and it is believed that by the introduction of he smelting process, the per centage of gold per bushel will we here than donbled. Extravagant ad ocates of the smelting process assert that it wit ysitem of amalgamation. From by the best known and heard, think there can be but little have seen nd heark, 1 ere to he exisheo gitieicnt capital and hese veins, nd arar wo the they will prour ang obear to work hem, hey will prove amply remunow succed in pieking up the gold and an pan, and in supporting themselves and their this dishonest iudustry communicating any of the tales whieh I bain from of the comparative richncss of these veins hear invariably found that the very richest in reputation are those which the owners wish to sell, and 1 am therefore slow to credit their representations. The only mines for sale concerning which I should implicitly believe all that the owners say, are the Mathematics in the University of Georgia. They are certainly rich, and are in the market because the Professor is unable to work them, and does not believe in the success of individual mining. He is a most worthy man to whom undeviating truth is second nature.

## Arizona.

The La Paz (Arizona) Gazette, August 16th, says At present the copper mines of Arizona are attrac ing abroad more attention than the deposits of more precions metals. At Williams' Fork, on the Colorado river, many valuable copper leads are located and a great deal of work has been done

The Yuma Mining Company, incorporated in San Francisco in March last, with Gel. Irwin McDowell, Maj. R. W. Kirkham and George F. Hooper as trustees, , with a capital of for hydraulie mining on the Gila, about 20 miles from Fort ruma.....A correspondent writes from Prescott July 23d to the Alta: Several of the mills are in on the A ana Frio running tive stamps, and althongh defective in some
partieulars, is likely to render good service. There is an abundance of water, and the driving wheel is fifty teet in diameter. The ore used is from the Central the mill, and thus far it has returned from $\$ 50$ to $\$ 100$ he min, The lodes are very large, and there would per ton. The lodes are very large, and there Would
seem to be no end to the ore. The Sterling Mill, five stamps, upon the Sterling lode, five miles south of rescott, has been running for two weeks past, and is $\$ 30$ to $\$ 50$ per ton, and the shafts and tunnels fhow quantity of rock, better, it is said, than any ye crushed. The Sterling ore has much free gold and thus far shows no sulphurets. The lodes on lunx Creek, ten miles east from here and one of the riches districts, all show sulphurets, and most of them at a depth ol fifty feet indicate a change to silver. The Eureka, one of the most noted mines, shows a greyish difficult to work. Fried in thany think ion, after roasting, it never fails to show gold. Mr. Cummings, one of the proprietors, will go to san Francisco in a few days with some hundreds of pounds, in order to secure a thorough test, and learn the exact process re quisite to its successfnl working. The Colorado mi ners here insist that the Lynx Creek ores are just like those of Colorado, and think the Lyon process wil be the only one suited to their reduetion. Mr. Lamson's two Thunderbolt milis are here. One will be in operation on Lynx Creek early in August, and, if uecessary, arrangements will be made lor working silve as well as gold quartz. At forty feet thic shaft on the Florence lode, near the unill, and the oie from which Mr. Lamson proposed to work, shows silver rock-a six foot vein-some of it fit to compare with that of here hae. Alessss. Cor 10 here, have agrecd to put a mill on the empqua gold llascayampa it is sail ther are to have 1.500 tone Hassayampa. It is sail ore to crush at $\$ 20$, and the same amount at $\$ 25$, Which ought to pay very well ; for as nearly as 1 can ton to crush ore in this well-wooded and watered part of the territory. Mr. Vickroy, who brourht a mill here for some Philadelphia partics, in $186 \overline{5}$, has returued, and with him a Captain Coffin, formerly of the army ol the Potomac, who will assume full charge of the mill, and, it is hoped, put it in operation without delay. It is a good nuill, of the old tashioned sort and there is general regret that it has been idle to this time. Captain George A. Johnson, of Fort Yuma has made arrangements with Mr. Groom, and others here, to send up a five stamp mill, to be located in this visinity. It will be put npon the stering, or some one of the promising lodes near to it. The Borger mill, in which Wormser \& Co. are interested, is rapidly approaching eompletion, and ores from the Big Bug and Galena lodes, in the Big Bug district, are ready or 1 it . It is, periaps, the best fitted of all the mill brought here to this time, and the district is one in which we have great hopes. This brief allusion to milling movements here, which is by no means compiete, will serve to show that we are moving lorward that the Apaches have not dismayed our quartz own-
ers, and that we shall soon know the exact value of our ore.

## California.

Placer.-The Placer Herald, of September 8th, says : The mallet vein contimues to bear a great deal of sulphurets. Some of the rock was recently worked by mill process and yielded $\$ 76$ to the ton. As to richness of the quartz veins ahont Anburn it is now a their fortunes.
Alpine.-The Monitor Miner, of September 1st, says: An additional force was this week put to the ing Star mine. The furnaces for the Davileon will are well under way the superstructure and luruaces proper being finislied and the main flue or chimney more than hall completed. The heicht of the whet will be 48 feet, and it is being built in the best manner. Prof. Kustell, we understand, is now at Virginin City, and will be here with skilled hands to attend the furnaces very soon ... The Mowyer tunnel is to be run from this on until the ledge is cnt with an in creased force. Water is now eoming in at the face, and the sound of water ahead gives hope that the lode is near at hand .... In Silver Monntain distriet the ledge of the Washington is understood to be improving in size and quality. The Montana tunnel is being pnshed ahead. The Lady Elgin company, owning on the Kohinoor lode, are about letting a contract for seventy-five feet of tunnel. The Silver Mountaik. Buckeye No. 2, Maine and Pennsylvania companies are at work making nsual progress.
Nevada.-The T, anscript, September 5th. says : The company owning in New York Hill, Grass Valley, are taking ont magnificent rock from their mine. We saw some sulphuret rock yesterday, which will compare tavorably with ore fron any mine in the connty. anc company have a large amount of ground.... be tween five and ix miles of Township, on the extension of what is known as the Stranahan ground. These two companies claim the mountains under which the ancient river bed is sup-
posed to be loeated, from Chalk Bluff to Bear Valley The theory of the parties loeating these elaims is, that hrough Bear Valley and under the mountains, being buried by the upheal trom four hundred feet to greater depth below the surface. They claim that with fewr excentions the channels of blue eement yet found are only side-washes for the main channel and that the source of these washes will be found far richer than the channels fed by it. It is needless to say that if the theory of these men, who are practiea miners, is eorrect, the cement claims have not begun to be developed yet. Mauy practical miners are strong ingly Saturd angust 18th. The vein is six inches wide and is nearly one-third gold. It is called the "Red White and Blue. .... The Grass Valley Union, of August 30th, says: The Washington ledge on the Ben Franklin Hill, is looking better than ever. An inter est of one hundred fect was sold during the present week for $\$ 1,500$ cash, and the trade is here regarded as an excellent one for the purchaser.... The National says: The ledge was struck this morning in the north ern extension of the Ophir mine on Ophir Hill. The old shaft, in the Ophir, which is now nearly six hundred feet deep, is yielding some beautiful rock, most every piece containing more or less gold visible to the cye. The new shaft is now some three hundred and twenty-five feet deep, and is producing some very pretty rock.... Ar osborne him, Wood are now down on their ledge abont three hundred and forty feet. In the incline rock is now being taken out ore which yields about $\$ 115$ to the ton.

## Nevada.

The San Francisco Stock Broker's Circular of Sept. 8th says: Hale and Noreross is still firmly held, and no sales transpired in the Board the past week. It is uow quoted at $\$ 1,650$ bid, $\$ 1,750$ asked. Various portions of the mine are looking exceedingly well, but no new developments have been made recently savage steadily advances from $\$ 1,075$ to $\$ 1,130, \mathrm{~b}$ 30 receded to $\$ 1,115$, then sold at $\$ 1.135$, elosing yesterday at $\$ 1,160$, hid. Duriug the week ending Seplember 1 st, 1 mills fleare were extracted, and 96 tons shipped to mils, leavigg ow tons on hand. The approximate value of the above 1,011 tons is estimated \$23, 14 , the montl of sugust the actual profits of the mine are tated to be about $\$ 1000000$. In making the mbove as timate 2 d class ore is valued at $\$ 55$ per ton, and 3 d mate, 2 d class ore is valuci at $\$ 55$ per ton, and penctrating umprofitable spots of ore. The Superin tendent's report says: " the ground is hard both with us and the Hale \& Norcross, so that it will probably us and the wate as to connect." The Atchison mill now reduces abont 45 tons of ore per day......Crown Point has receded from our last qnotations, and a few teet changed hands at $\$ 900$ and $\$ 880$. For the week ending sept. 2d, 60.5 tons of ore were extraeted from the mine. The drift south, on the $300-$ foot level, and the north, midde and Eonth winzes, are looking well The drift from the 400 -foot station is now in 213 feet, till leaving 200 fcet to penetrate before striking the vein. The suit of the Kentuck rs. tbis Company has been settled for the sum of $\$ 20,000 \ldots . .$. . Gould \& curry has met small sales the past week, and at the close is held at \$710 per toot. The omial figures ive the receipts of bultion for the month of August at \$134.395 23. The incline from the $2 d$ to the 4 th station has not yet been completed, and not until then will a thorough search be instrinted o ascertain the quantity of ore in the rich seam lately passed through. since our last report, over 200 feet changing hands, advancing from $\$ 772 \frac{1}{2}$ to $\$ 790$, receding to $\$ 775$, rallied again to $\$ 790$, then sold at $\$ 749 a 757 \frac{1}{2}$, elosing yesterday at $\$ 770$. In the absence of official reports, a telegram, dated September 3d, says: "Mined 9,300 ons last month ; and gross yield, $\$ 390,000$." This are of a frietion less than \$43 per ton. This, it is thought, will leave a net profit of nearly $\$ 20$ per ton. trong ophir ba met with a light decline opening at $\$ 210$, receding to $\$ 187$, then advancing to $\$ 195$, and closed yesterday at 210, b. 80 . A eontract has been let by this Company to sink the shaft to a further deptli of a bundred lect, in order to get at the body of ore below the 9 th level, opened by means of a winze. In the 7th level a body ol ore has been found which promises well-1st elass paying, it is thought, $\$ 200$ and the 2 d class $\$ 70$ per ton. There are about 700 tons of ore now at the company's Washoe works and mine, which, it is believed, will yield about $\$ 70,000$ bullion. The working expenses of the mine, heretofore quite heavy, have been very materially reduced, and the receipts for the month of September will be larger than nsual. .....Chollar Potosi has exhibited considerable animation the past week, and some 200 fee were sold ; opening at $\$ 130$, s. 60 , advancing to $\$ 135$ then dropping to $\$ 130$, again selling at $\$ 135$, and elosing yesterday at $\$ 136$. During the week ending September 1 st, $478 \frac{1}{2}$ tons of ore were shipped to Cus tom mills. The several stations of the mine presen no new features requiring special attention. We have it from a reliable source that no assessment is thought
of at present, as a rumor would have it last week.
$\ldots$. .. Imperial has advanced a trifle selling early in the week at $\$ 96$, advancing to $\$ 100$ and closing at $96 \$$ bid.

## Colorado.

The Central City Register, September 18th, learns from Capt. W. H. Morgan, who has just returned from an extended prospecting trip in the mountains southwest of the South Park, that he has found very rich
silver and eopper bearing ores very rich, large masses of almost pure eopper lying exposed to the surface, and nurgets of pure silver be ing found by panning in the gulches pure silver be Hawk Journal says: We understand that Lyon \& Co are putting up one of the patent Swansea desulphurare puting up one of the patent Swansea desulphur-
izing furnaces of which Prof. Hill spoke to us when here last. He said a furnace would desnlphurize 40 to 50 tons a day with no fuel except the sulphur iu the ore, of which there must be 18 per cent. This is Mr. Bell had made the fire-brick, but they were of peenliar shape and were broken to pieces eoming up. and they are being laid up at the smelting works. Elsewhere the same paper says: Since the opening of the present season, freights have receded so that it is possible to transport matt to New York by the quantity for $\$ 100$ a ton, or to Swansea in Wales for $\$ 200$. An arrangement has been made with Mr. B. Hermann, or through hum with Vivian \& Sons to purchase the matt made at these works, or to separate the copper and bullion for Lyon \& Co. In the manufacture of matt no flux except quartz is required. This obviates the necessity, which existed in the process heretofore used, for lead or litharge, iron, tin, charcoal, and other fluxes, and bones for cupelling. The reverberatory furnaces at the works are precisely like those at Swansea, adapted to this new use, for which indeed, they were originally intended. Their united eapacity is estimated at 15 tons a day. Matt is not considered at the shipping point until it has been enriched or concentrated to contain 60 per eent. of eopper. As to
the amount of ores which will make a ton of matt of this richness in copper, of course retaining or containing all the bullion of the ores, it will vary largely in the ease of different mines. Mr. Johnson thinks tha 4 tons of selected copper ore from the Bobtail wil per a ton of matt. Gresory ore concuis about of Gregory ore to make a ton of matt. In and tons the quantity would be increased or diminished ac cording to their richness in copper. Matt is worth now, saying nothing of its bullion, $\& 6$ for each one per cent. of copper. So that regular matt, 60 per per eopper) is worth $\$ 360$ a ton for its copper. The bullion again varies aecording to the richness of the ores, from abont the same value per ton as in copper ( $\$ 360$ ) to perhaps twice as much. A ton of Bobtail matt is worth in the neighborhood of $\$ 1,000$. Matt might be separated here as well as anywhere, but that they have a secret process for doing it at Swansea, so much cheaper than any known outside of them that they have monopolized the business. They ean afford to make it pay copper miners to send their ores to them, or manufacturers of matt to sell to them rather than try to separate the copper and bullion themselves. Mr. Johnson thinks it not impossible that Vivian \& Sons will eventually establish a branch of their works here, when the cost of transportation of matt would of course be saved between the seller: and buyers.

## Maryland.

For months past, explorations have been going on in Montgomery county, and near Washington City, and in the Journal of Mining it was recently stated that
three auriferous quartz veins cross the Potomac near three auriferous quartz veins cross the Potomac near the Falls, the rock from one of which assayed $\$ 6$ per from the Rockville Sentinel : The facts show that the presence of rieh gold deposits within al tew miles of land Mining Company, composed priseipally of Philand Mining Company, composed priceipally of Phiof land about two miles below the Great Falls of the Potomac, of some one hundred and twenty acres; they have sunk several and run some dritts, and in these have found several well defined veins of goldbearing quartz, which assays from forty to twenty five hundred dollars per ton. Having demonstrated the abundance and richness of the quartz, they have these ores, and will be ready to put it in operation in a couple of weeks from this time. The abundance and richness of the quartz has ereated a great demand for the stock of this eompany. Adjoining the Maryland mines, and within a tew yards of their openings, the veins euter the Henry fract, now owned by Messrs. Mace, Metealf, Kilgour, Dietrick and Casey, of Washington City. This is a large tract, containing five hundred acres, and having five veins, each a mile in length, throngh it. Some of these veins have been
opened, and are fonnd to be exceedingly rich. We opened, and are found to be exceedingly rich. We are very rich, eontaining large quantities of gold, apparent to the naked eye. Near by are the "Homiller" tract owned by Dr. Kidwell, Marshall, Lamon and
others; and the "Muncaster" farm, owned by Judge Casey and others. All of these contain the veins, and promise the same richness that the others exbibit ands of the Unove the "Cabin John" bridge are or ganized with a capital of two millions of dollars. They are sinking shafts, \&e., and their preliminary assays show the same richness exhibited above. In addition to these there are several other parties operating on the Virginia side of the river, and these ex plorations are developing large veins of eopper, copper sulphurets, pyrites of iron, silver, lead, \&c., besides giving indications of the presence of gold in very considerable quantities. Many experienced mi-
ners and skillful mining engineers have visited the reners and skillul mining engineers have visited and they all concur in the opinion that, gion lately, and they all eoncur in the opinion that,
when developed, these will beamong the richest mines when developed
in the country.

## Utah.

The Salt Lake City Vedette of Sept. 13, says : Thursday we received a call from Mr. J. W. Gibson, who is operating in the Stockton mines. He informs us that eapacity of 600 pounds a day. Nine runs have been made, of a hundred pounds each, and 300 pounds of metal was obtained, some of which las been brought metais city and the result of an assay by Messrs. Bohm \& Mollier is $\$ 228$ of silver to the ton, the remainder being nearly pure lead. This furnace is constructed with the firestone found at Stockton, and works ad mirably. The cost of the furnace was $\$ 300$. It re quires fhree men to work it and uses two cords of wood to the ton of ore, no coal being required. Ore is delivered at the furuace for oue dollar per hundred, and wood for $\$ 6$ per cord. Mr. G. will go to work immediately putting up a cupell furnace, so that inside of twenty days he will be turning out silver bricks. These are solid faets which speak for themselves, and the result is enough to satisfy the expectations of the most sanguine. It shows what can be done when eapital is brought to bear. extensive works erected and shatts sunk down to a greater depth. This furnace is small and of the most primitive, description and its proprietor is making his first attempt at the business. He is entitled to considerable eredit for his enterprise in giving us such indeniable proors of the richness o the Stockton mines, and we may expect fhat at an carly day next seas n quł a amber of large work will be turning out siver bricks by the ton. Genera Connor, Mr. Kansohoff, Captain Brown, Dr. William sou, and severa other gentemen, from this city, wit all pronounce it highly sotisfory all pronounce it highly satisfatory Connors mache y and by one year from this time we believe Stotion, will be one of the leading mining towus of the Terri tories Assays of Stockton ore made by Rehin Vlolitor, give to the ton of 2000 pounds. Pleasot Hill, -goid traces, silver, oz. 9.72 ; valne, $\$ 1256$. Hard Times No. 2 -gold traees, silver, oz. 81.40 ; value, $\$ 105$ 23. Great Central-gold traces, silver, oz 66.8 2; value, $\$ 8638$. Quandary-gold traces, silver, oz. 43.74 ; value, $\$ 5665$.

## Oregon.

From the Portland Herald, Augnst 25th, we take the ollowing: We were shown a eouple of ounces of fine, retorted gold yesterday, which was represented as having been taken out of the banks of a ereek on the Lower Columbia, within one mile of the rild. What gold appears to be what is termed "quartz-gold. the men have only been gone that length of time We are not informed as to the exact locality, as the parties are now engaged prospecting and will keep their whereabouts secret, until such time as they have secured all the ground they need.... We learn, by parties from the upper country, that there are at leas 2,000 men on the way dowu to Portland, in a strapped eondton, and ready to dono blo People need not be alarmed by snch storics.... The time sinee from Vanconver has been heard from the simee fom Vacoure has been heard frow. The orders were misunderstood, and only an assay made, instead of the whole ton being cmshe. the aflir and see that a fair working test of the whole amount is procured.

## Arkansas.

A telegraph from Little Roek, 22d inst., runs thus: A perteet flood of persons, excited by mining reports from Western Arkansas, are pouring through this eity on their way ont to the silver mines. Some twenty have sent out agents to the supposed new E1 Dorado. The influx of new-comers will probably eause this State to successfully compete with others for emigration.

## Pennsylvania.

It is stated that the old copper mine in West Fallow. field township, Chester county, Pa., worked and aban-
doned prior to the revolutionary war, is now being doned prior to the revolutionary war, is now being
opened. The company have opened the old shaft to
the depth of thirty feet, and find a side excavation of some fifteen teet in length and the same in width. Parties from Philadelphia are successfully engaged in digging copper ore at the Gap, at the distance of four shaft in the Dunkard Region, Gr ceue Co., Pa., is slow $y$ but surely progressing, and is now exeavated to the epth of about 100 feet.

## Virginia.

The Lynchburg News, of October 2nd, says: Mr. R. B. Catherwood, of New York eity, purehased, on Wednesday, one of the most valuable gold mines in Virginia. recently discovered by Messrs. Benj. Smith and Brothers, of spotsylvania county. The sale was made for about $\$ 50,000$ eash.

## Australia.

From the report of the mining department of Victoria for the year 1865, we learn that, notwithstanding the dronght, nearly the same number of miners were employed in 1865 as in the previous year until the last quarter. The total number of alluvial miners was 65,484 , and their average earnings $£ 616 \mathrm{~s}$. 3 d . per man per annum, showing an increase over the rate of 1864 of $£ 510$ s. 3d. The quartz-miners were 17.730 in number, and their average earnings £ 10110 s . $5 \frac{1}{2} \mathrm{~d}$., sum which shows a decrease of $£ 283 \mathrm{~s} .4 \mathrm{~d}$. The Chinese diggers have not increased in numbers, and while some 20,900 are engaged in alluvial workings, only 28 have been engaged in reefing. In alluvial mines the 691 or in 1864 to 473 of 8.208 , wh ,091 in 1865 In quartzing the inere 20 hase from 447 engines, of 7,746 horse-power, driving 4575 from 447 engines, of 7,746 horse-power, driving 4.575 propelling 5,119 head of stamps. The valne of the propelling 5,119 head of stamps. The value of the $£ 1,773,271$. Not fewer than 725 square miles of anriferous ground are mined upon, and in these 2,029 distine ous ground are mined upon, and ins these The vatue of all the claims in the colony is estimated by the regisfrar and surveyors at $£ 8,498,924$. The average yields from the quartz reefs las been improved, probably by the greater care now shown ine th treatment of the rushed stone. The 700,340 tons reduced iu 1865 gave an average of 11 dwt 17.4 gr . Of tailings, mullock and cement 196,422 tons have been passed under the stampers, with an average yield of $4 d \mathrm{wt} 16 \mathrm{gr}$. to the tou It appears that not less than 1,937 miles of water race have been cut or eonstructed, at an average cost o £138 per mile, and that the daily quantity of water hey divert for useful purposes is $459,281,124$ gallons. In 1865, not fewer than 719 gold-mining leases wer issued, covering 13,918 aeres; and the unmber in foree
on the last day of December was 1,043 for 15,779 acres. Forty-nime water-right licenses were issued in the course of the year, the eapital to be invested being $£ 75,907$. The department estimates that the total value of the gold produced in the colony up to the end of 1865, amounted to no less than 2123,932,184
 c600; £150; or a fot $\$ 124210,654$ Bismuth it La, or Wismnth, it stated, of oneo, little is line in the subg sub division Coper is found on fhe Thompsou River, presen. Cops there are about to receive a hands of practical men. Molybdenum is found in the quartz at Yaekandandah, but has not yet been worked. The antimony of Heathcote, assayed in London, has been found to give 54.35 per eent. of metallic antimony, 8,175 ounces of gold, and 80,050 ounces of silver per ton of 20 cwt of ore.

## British Columbia.

The Victoria (V. 1.) Colonist, of August 28th, contains 1 ing the Diseovery company have got creek, Aus. 16h, fom whicl they pan obtain from $\$ 6$ a $\$ 12$ to the pain in Colina $\$ 6$ to $\$ 12$ to the pas last week, and are still followpay the pay aging from eicht to ten ounces a day. five men at work The Salt Spring company are taking out good pay...... At Conklin's Gulch the United States company have run a tunnel three hundred and fifty feet into the hill, and have struck a channel containing a large deposit of washed boulders and gravel, in which they can get as high as seventy cents to the pan. The llood company have struck a hill channel three hundred and fifty feet from the ereek, in which they find prospects trom twenty-tive to thirty-seven cents to the pan......At William's ereek (Aug. 20th) Bradley, Nicolson \& Co. are averaging from seventy to eighty ounces a week. Try Again company win making about wages. Forward company are making from $\$ 10$ to $\$ 12$ a day to the hand. Wilson company washed up thirty-five ounces for last week; they got one piece weighing two ounces. Browse eompany washed 11 p for last week forty ounces, and for week before last tifty-eight ounces; and many others are doing well ......At Lowhee creek the Grouse Creek Red Rock Fhume eompany struck a prospect of $\$ 80$

Friday...... At Canyon creck, Aug. 21, the Blue Lead company were working, two men shovelling
washing out five ounces in one day. This gold is taken from a ledge of rotten quartz; it is nearly all rough and ragged gold......J. E. Edwards recently went from Williams' creek to the Farks Quesnel, and
discovered two creeks, which he uaned Coquet and

Cedar creeks. With two others he prospected for codyr a short time ou Coquct creek, where they found
oold which would pay, according to the superficial gold which would pay, according to the superficial
trial they gave it, abont an ounce a day to the hand. trial they gave it, about an ounce a day to the hand.
They afierwards went to Cedar creck. About one They atierwards went the Cedar creed. About one
mile from its month they prospected on a bar by mile from its month they prospected on a bar by
ground sloucing, from nine a. m. to twelve o'clock.

They then turned off the water and panned off seven and a quarter ounces of round, coarse gold, resem-
bling the gold of Willians' creek.....As to Big bling the gold of Willians' creek......As to Big
Bend we have the following: There is truth in the reported strike on the benclies on French creek, in so far that the miners considered that they had found diggings that would pay wages (\$7).

GOLD

|  |  | athex of ming. | secritary a place of hesmess. |
| :---: | :---: | :---: | :---: |
|  |  |  | 11. W. Nelson, 24 City Ex., Boston. |
| Ada |  | 2,000,400 south Boise | 13. lawrence. 157 B'way, N. Y. |
| Amber | 300.000 | 300.000 Greene Co. | Geo, W. Grove, 276 S . Third. Phil II W. Nelson, 24 City Ex. Boston. |
|  |  | 300.000 Halitax. Nova |  |
| Alps. | 100,000 | 250.0000 Itiliais Central | II. W. Nelson, 24 City Ex. , Boston I. stanton, Jr., 25 Nassau, N. Y. <br>  |
| Ascot | 50,000 | 5,000,000 sherb |  |
|  |  |  | Clas. Berete, is Poane, Boston. |
| Atlatic \& Pa |  |  | J. N. Sewall, 8 Broad, N. Y. <br> II. Foles, 71 B'way, N. Y |
| American | 100,000 | 5,000000 Gregory I |  |
| American Flag | 60,000 | 600.000 Nevada Dist |  |
| Astor.. | 200,000 | 1,000.000 On Constock | J. Chapman. $\overline{\text { I }}$ Brawdway, N Y. |
|  |  | Color | New York. |
| Bates \& |  |  |  |
| Bay Stat | $2 \boldsymbol{1 0}$ |  |  |
| Benton. | 100,000 | 500,000 Colorad |  |
| Black Hawk.. | 50,000 | 5.000,000 Gilpiu co | D. Littlejohn, 81 Jolin, N. Y. <br> J. B. Post, 20 Ex. Pl., N. Y. <br> J. Stanton, Jr., 25 Nassau. N. Y |
|  |  | 500,000 Halifax co |  |
| Bobta | 100,000 | 1,000,000 |  |
| Brigss | 10,000 | 1.000,000 Gilpia co. . ( | D. Littlejoln, s1 Jobn, N. Y. |
| Bradsha | 250.000 | 1,000,000 Yavapai Cunt | O. H. Conover, 219 Dhek st, Phil |
| Burroughs | 100,000 | 1.000 .0000 | L. Bangs. 22 Pine, N. Y. <br> 69 fiherty. N. Y. <br> J. P. Whitney, 19 Lindall, Doston |
| Bullioa. | 200,000 | 1.000 .000 B |  |
| Butlion Cuusoli | 300,000 | 300,000 Sammit and |  |
| Calvin | 200,000 | ,000 000 C |  |
| Canadia |  |  | A. Call, \% Pheruix 13'l'g. Boston. is B'way |
| Chem. Golds: |  |  |  |
| Ch. Eu. Gold C | 240,000 | 1200.000 | Jesse G. Pitts, 69 Liherty |
| Chebucto | 100,000 | 500.00012 l mil |  |
|  |  | 3 miles tron | J. E. M. Gilley, Boston. <br> H. Doane, 41 Stato, Boston <br> W. E. Lawton, $>1$ John, N. Y |
| Chase | 5,000 | Colorado |  |
| Central Gold M | 20,000 | 1,000,006 Centra | I. Bangs. 17 Nassan, N. Y. 46 Exchange Pl., N. V. Win. B. Fowle, Boston. New York. <br> W. N. Ely, 7 Trav'r B'lge. Boston. <br> R C. M'Lauchlin go State Bos' |
| Central Mining. | 200,000 | 1,000,000 Colorado |  |
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| Cobden. | 100,000 | 1,000,000 |  |
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| Colorado Bosto |  |  |  |
| Colorado N. Y |  |  | R. C. M'Laughlin. 60 State, Bos'u. 12 Pine. N. Y. |
| Coleman |  | olora | New York. |
| Columbia | 30,040 | 3,000,000 Austin | t0 Pine. $\mathbf{N}$ Y Y |
| Consuelo |  |  |  |
| Consol Gregory | 50, 0 no | 5,000,000 Gregory D | 30 Pine, , X. Y.W. W. Baldwin, 3; $W_{m .1}$ N. V. |
| Cook \& Kimball |  | 150,000 Celorat |  |
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| Corrisaanee | 100,000 | 1,006,000 Colora | New York. <br> Phitadelphia. |
| Commonwealt |  | Nev |  |
| Corrydonn | 100,000 | 2,500,000 Gilpil | 46 Exchange Pl., N. Y. <br> 115 Liberty, N. Y. <br> L. Pangs, 22 Pine, N. Y. <br> John S McMullin, 423 Walnnt, Pa. <br> T. Chalmers. Jr., 20 Ex P1, N. Y. |
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| Dauphin \& Colo. | - 2000,000 | 1,000, |  |
| Day \& Buslinell | 1300.000 | 3,000, 000 Colorad |  |
|  |  | 10,000,000 Chandie | T. Chalmers. Jr., 20 Ex. Pl, N. Y. <br> J. 3. Winchell, 72 Cedar. N. Y. |
| Denver. |  | 1,000,000 Gilpin |  |
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| Downiev | 300,000 | C | W. Stockbridge 74 Fr"klin. Bos’n. J. C. Harriott, 01 Wall, N. Y. |
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| Eagle. |  | $1.000,000 \mathrm{Gold}$ Dirt Dist. | d. P. Davies, s1 Jolhe N. Y |
| East Bannack | 100.000 | 200,000 Bannack City. |  |
| Eldorado. | 500,100 | $500.000 \operatorname{San}$ A D | O0. F. Grimin, Pan Francisco. |
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| Enriquetta |  |  |  |
| Esperanz |  | 500,000 Star I., Humb | 117 Broadway. N. Y. |
|  | 50.000 | , | C. W. Bryant. Boston. |
| Exeelsior | .000 | 300.000 Central City. |  |
| Fairmount. |  |  |  |
| Famine Fall | 100,000 | 1,0000000 | 1. L. Dodge so B way . N. Y. |
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| Gem | 25,000 | 1.250,000 |  |
| Gilpin. |  |  | C. E. Jackson. 18 Phe'x B'g. Bos'n. 1: W. Galloupe it state Boston. |
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| old Fiel |  |  |  |
| Gold Rock |  | (0) Central | C. B. Cowling. 39 kilby Boston. |
| Gold Hill | 50,000 | 100 Col | R. ${ }_{\text {W. }}$ T. |
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| Gregory .. | 20,000 | 1.000.000 Color | F. F. Roelfom. 8 \& so Brway . . Y Y |
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|  |  |  | Fred. Franck. 113 Water, N. Y. G. W. Farlee, is Wall, N. Y. J. Jarrett. 41 Liberty, N. Y W. R. Lothrop, 172 R'way, N. Y. W. D. Briags. 11 Phe'x B'Ig. Bos, Jas, K. Sefleck, $15 \%$ B'way, N. Y. |
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|  |  |  | J. Weatherbee, Jr.. Beston. <br> W. A. Kent, 144 State, Boston. |
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| $\begin{array}{r} 100,000 \\ 60,000 \end{array}$ | 1000,000 Sherbrooke, Canada Fast..... F. Schumacker, Cliff, N. Y 600,060 Amador D. . Lauder co., Nev, is Wall, N. Y. |  |  |
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$\frac{\text { EnC Y And Place or bessers }}{\text { S. R. Mutchinson, } 80}$ . 10 S. A. Hophins, 71 Broadway NY 6 Pino street, New York.
137 Broadway, New York. R. C. Root, 74 Broadway, N. Y
New York. New York.
Philadelphia 24 Phive, N. Y.
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5 Pine street, New York.
48 East T. H. Perkins, New York. 15 Nassau street, New York.
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Wm. Lemmon, 17 Broad,
67 Ex. Place 67 Fx. Place, New York. San Francisco.
C. C. Lamson. 21 Nassau st., N. Y. is Wall street, New York.
d. . Hitheock. 62 Bdway, W. i. Rugers, 17 B' way. N. Y
A. M. Palmer, 19 Broad st., N.
 Canastota, New York
A.S. Kollogg. 22 Pine A. S. K Killogg, 22 Pine, New York
10 Pine, Now York. New York.
H. S. M'Collu Rancs, 178 B'way, $\mathrm{N} . \mathrm{Y}$ J. M. Brancisco, ${ }^{\text {an }}$. B'wy, N. Y. 40 Park Row.
107 Broadway
107 Broadway.
i. G. Binghay, 80 B'way, N.Y.
35 William street, New York. G. M. Eldridge, 144 s . 4 th, Pl. S. R. Hutchinsol, 80 B'way, N.Y.
II Broadway, New York.

COPPHR.

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| Astor, adventure, | $\begin{aligned} & 20,000 \\ & 20,000 \end{aligned}$ | $\begin{gathered} 500.0 .0 \\ 1,000,0 \end{gathered}$ | Miehigan. <br> Parts of Sections 3o, 36, T. <br> $\checkmark$ Rance 38 W | Pittshurgh. | Keweenaw, Knowlton, | $\begin{aligned} & 20,000 \\ & 20,000 \end{aligned}$ | $\begin{aligned} & 50,000 \\ & 500,000 \end{aligned}$ | SEX SE1/4 | F. W. Chapen, 44 Ex. Pl., Boston. $44 \mathrm{Ex} . \mathrm{Pl} .$, N. Y. |
| Etna, | 20,000 | 500,0 | 1226 A in secs. $6,7,18$, T. $58, \mathrm{~N}$ R2s, W Keweenaw co. Mich. | B. A. Hoopes, 324 Walnut Et., Phil. | Lafa | 20,000 | 50 | Secs. $25,30,36$, T, T. | P. C. Blancan, 35 Wall St., N. Y. |
| Alb'ny \& Bost'n, |  |  | ces $7,8,9,10,11$, T. 55, R. 33 | Fred. Beck, 43 City Ex., Boston. |  | 200,000 |  | Township Nelsou, Can | H. W. Nelson, 24 |
| Anita, | 20,00 |  | Inel Norte co., Catiornia, | 8 Wall Et., N. Y. | Lower Californla | 40,0002 |  | N. part of Iower Cali | 45 Wiliam St |
| Algomah, |  | 500,000 500000 | W1/ S, 30, T. 51, R. 34, | L. W. Clark, Boston. | Madison, | 20,000 20,000 | ${ }_{500}^{500}$ | t see. 18, 19 entire | Fred. Beck, 43 City |
| Amy gdlyd'., | $\begin{aligned} & 20,000 \\ & 20,000 \end{aligned}$ | $\begin{aligned} & 500.000 \\ & 500.000 \end{aligned}$ |  | Horatio Bigelow, Boston | Morryweathe <br> Mandau, | 20,000 20,000 | $\begin{aligned} & \mathbf{5 0 0 , 0} \\ & \mathbf{5 0 0}, 0 \end{aligned}$ | 680 A. Secs. $8,17,19,30$, T. 68 , <br> N. R. 29, W., Keweenaw |  |
| Arcadian, | 20,000 | 500,000 | 160 A , <br> WW $1 / 4 \mathrm{sec} .20$, T. 57, R. 33 , 160 A , | Philadelphia. <br> P. Dixon, 48 Pine St. N. Y. | Ma | 20,000 | 500,000 | $1 / 2$ see. 11, NW 14 Sec. 14, T. <br> T. 58, N. R. 32, W, 360 A. | B. A. Hoopes, 324 Wa!nut, Phil? J. W. Davies, 21 Nassau St., N. Y |
| Atlas, | 20,000 | 500,000 | NE14 of $\mathrm{E} 1 / 2$ \& Sec. 31, T. 57, |  |  | $\begin{array}{r} 100,000 \\ 20,000 \end{array}$ |  |  | M. Taylor, 30 Wall St., N. Y. J. M. Cooper. Pittshurgb. |
| Aztec | 20,000 |  |  |  |  | 20,000 | 500,0 | N1/ Sec. 24, | L. Burr, 12 Phoenix B'gs, Bos |
| Bay St | 20,000 |  |  | W. Clark, Boston |  |  |  |  | 606 Mont St. San Francisco, |
| Bohemian, | 20,000 | 500,000 | $\begin{aligned} & \text { E1/2 }=\text { ec. } 31, \mathrm{NW}, 4 \text { Sec. } 32, \\ & 51, \mathrm{P} .37, \mathrm{~W}, \end{aligned}$ | R.H. Rickard, 21 Nas | Minnesota, Maryland, | 20,000 1 | 1,000 | Soe, 15, T. 50 Maryland, | S. M. Pond, 12 Pioe St., N. Y. Baltimoro. |
| Qoston, | 20,000 | ,00 | ichigan, | II. W. Warren, 60 City Ex. B'st'n. |  | 20.000 |  | Miehigan, | Pittshurgh, |
| ${ }_{\text {Canada, }}$ Calum , | 20,000 20,000 | 500,000 500000 | Brome co., Canada East, | H. P. Mouut, 3 Hanover St., N. Y. | Michigan, | 20.000 |  | Mich | W. H. Smit |
| Calumet, Concord, | 20,000 20.000 | 500,000 500,000 | Michigan, Michigan. | Boston. Boston. | Merrimac, | 20,000 |  |  | Mills, 284 Pear |
| Carp Lako, M., | 20,000 | 500,000 | T. 51 , N. R. 43, W. $S_{1 / 2}$ of $N / 2$ of N . Sec. 14, and E1/4 Sec |  | National, Nequakett, | $\begin{aligned} & 20,000 \\ & 20,000 \end{aligned}$ |  | Sec. 16.T. 50, R. 39.W, 1.988 A. Sec. 28, T. 51, R. 43, | Cooper, Pittshurgh. |
| Cascade, M. | 20,000 | . 00 | 23, and NE14 Sec. ${ }^{23,}$, 440 A W, in Outonagon co, Mich. | bel, 70 Wall St., N. Y. | New Burra, <br> New Jersey Con. <br> N. Y. \& Passaic | $\begin{aligned} & 100,000 \\ & 100,000 \end{aligned}$ | 1 | Baltimore. <br> New Jersey. <br> Harrison, Ber | R. Robarts, 19 Nassau St., N. Y. <br> W. Bowes, 68 Wall St. N. Y. <br> T. H. Belt, Jr. 23 Williain St.,N. Y |
| Copper Creek, | 20 |  |  | Mi Thompson, Missouri, Mo. | New Devon, |  |  |  |  |
| Copper Falls, | 20,000 20,000 | $\begin{aligned} & 500,00 \\ & 500,00 \end{aligned}$ | Sec. 14, T. 58, N. R. 31, W Keewenah Point, S1/2 See. 10, T. 58, R. 28, 320 | 97 State, Boston. | North Cliff, | $20.000$ | $\begin{gathered} 200 \\ 300 \end{gathered}$ | 36,35, T. 58 , N.R. 31 , <br> Miehigan. <br> Secs. 11. 12, T. 40, N.R. 39, W | J. M. Cooper, Boston and Detrolt. Pittshurgh, |
| Copper Cr |  | 500,000 | $\begin{gathered} \text { A, Ke } \\ \text { Douglas } \end{gathered}$ | Fred. Beck, 43 City Ex., Boston. T. B. Lawson, 71 Broadway N. Y. | Norwich, | 20,000 |  | Secs. 11. 12. T. 40, N. and other lands, 1 . | P. C. Blancan, 35 Wall St., N. Y |
| Central, | 20,000 | ,00 | Ey see. | J. Stantm, Jr., 25 Nassan. N. Y. | $\begin{aligned} & \mathrm{ogin} \\ & \text { ont } \end{aligned}$ |  |  | NW $1 / 2$ Sec. 6, T. 50 | E. Leffingwell, 7 Pine, N. Y: |
| Continent | 200,000 | 0 | Martinsburg, New York, | J. Sickles, 30 Ex. Pl, N |  |  |  | R. 33, W. Rockla | ${ }_{\text {G }}$ |
| Corinth, Copper H | 29,000 | 500,000 | Corinth, Orango co., Vermont, Wisconsin, | , W. A. Cleveland, 191 B' way, N.Y. Boston. | Otisville, <br> Penn. Manuf | $\begin{gathered} 100,00 \\ 20,0 \end{gathered}$ | $\begin{gathered} 500, \\ 1,000, \end{gathered}$ | Otisville, Orange co., N. Y 4.320 A . Secs. $13,14,15,24$ | C. Windsor, 63 Wall St., N. Y. |
| Dacotah, | 20,000 | S | Sec. 35, T. 55, R. Lake, |  | Petherick, Phenix, | $\begin{aligned} & 20,000 \\ & 20,000 \end{aligned}$ | $\begin{aligned} & 500, \\ & 500,0 \\ & 500.0 \end{aligned}$ | Michigan, Sichigan, | Boston, Boston, |
| Delaw | 20 |  |  | S. M. May, 326 Walnut St., B'st'n. |  |  |  |  |  |
| Douglas, | 20,000 20,000 | $\begin{aligned} & 500,000 \\ & 500,000 \end{aligned}$ | Michigan, E1/4 Sec. 30, T. 55, R. 3, | S. J. Edwards, William st. N. Y. |  | 20,000 |  | W\% | C. Emery, 39 Stato, Boston. |
| Dudley, Eaglo Riv |  |  |  | A. Bizelow 43, City Ex., Boston. | Pi | 20,000 |  | 31, 32, W, | H. A. Johnston, Pittsburgh. |
|  |  |  |  | i, $82 \mathrm{~B}^{\prime}$ W | Po | 0,0 |  |  | C. Emery, Kilhey St., Boston. |
| Empire, | 20,000 | 500,00 | 198 A. Socs. 1, 2, 11, 12, T. 58 <br> N. K. 28, W. K'w'u co., Min. | hill. | Prescott, Providence, | $\begin{array}{r} 100,000 \\ 20,000 \end{array}$ | $\begin{aligned} & 1.000, \\ & 500,0 \end{aligned}$ | Central Arizona, <br> 240 A . in Keweenah co., NW $1 / 2$ | 69 Broadway, N. Y. |
| Eureka, | 20,000 | $0,00$ | W1/2 See. 2, T. 49, N. R. 41 , W. Ontonagou co., |  |  |  |  | See. $10, \mathrm{~W}_{1 / 2} \mathrm{NW}_{1 / 4}$ See. T. 57, R. 32 . W. |  |
| Evergreen Bluff, Edwards'Uopper | 20,000 20,000 | $500,000$ $500,000$ | NE1/4 Sec. 6, T. 50, R. 38 , Michigan, | F. W. Capen, 44 Ex. Pl., N. Y <br> H. K. Thomas. 12 Wall. N. Y. | . \& Bosto | 20,000 | 500,0 | 640 A. Sec. 14, T. 58 28,W, Keweenaw eo | J. S. McMullin, 423 Walnut St., Boston. |
| Eaglo flarhor, | 20,000 | 500,0 | Iichiga | 31 Ex. Place, New Yo |  | 20,000 |  | Soc. 26, T. 54, N. R. 34, W, | H. Smith, 51 Ex Pl , N Y |
| Frue, | 20.000 |  | Nichig | A. S. Kelogg, 22 Pine |  | 8,000 | 200 |  | 11. Baldwin, 70 Wall Et ., N. Y. |
| $\underset{\text { Forest City }}{\text { Flint }}$ ( ${ }^{\text {ctel }}$ | 20,000 | ,000 | see. $11,12,1.50$, | , K. Mccully 108 Bray, M, Y, | Re | 20,000 | 500, | R. |  |
|  | 20,000 | $0,000$ | 320 A . NE1/2 Soc. 36 , and SE1/4 Sec. 25, T. 51, R. 43, | J. F. Paul, 19 Phœenix Building, boston. | Rochester, | 200.000 |  |  | II. K. Thomas, 11 |
| Franklin, | 20,000 | 500,0 | $\therefore$ Sec. 24, T. 55, |  | Phodo Island, Ridge, | $\begin{aligned} & 20,000 \\ & 20,000 \end{aligned}$ | $500,$ | Michigan. <br> Sec. 35, T. 51, R. 38. | Exchange Placo, N. |
| Franconia, |  |  |  | C. Emery. 26 | Rockland, | 20,00 |  | see. 11, T. 50, R. 39 , | J. W. Barry, 71 B'way, |
| Freuch Creek, | 00,000 | , | Cheste | Roberts, 19 Nassau St., N . Y | Resolute, | 20,000 | 500,00 | 1.120 A. Secs. $7.18,19$. T. |  |
| Garden City, | 20,000 | $0,000$ | sw ${ }^{1 / 2}$ Sec. 60, N. W. Sec T. 58, N. R. 31 W, | , |  |  |  | 58, N. R. 29, W. Keweenaw co., Mieh., |  |
| Girard, | 20,000 | 500.000 | 100 A Sec. 15, T. 58, N. |  | St. Mary St. Mar | 20.00 200.00 | 500,0 $1,000,0$ |  | F. Beck, 45 City Ex., Boston. E. B. Sutton, 43 Pine, N. Y. |
| Gr'd Portage, | 20,000 |  | W $1 / 4 \mathrm{Sec} .36$, R. 34, w, | Kellogg, 22 Pine St., N. Y. | Saint Clair, | 20,000 | , | hichigan | Boston, |
| Great Western, | 20,000 | 0,0 | $\mathrm{E}_{1}^{1}$ Sec. $30, \& \mathrm{SW}_{1 / 4}$ see T- 21 , K. 320 A ., Onton |  | Staron, Sheldon \& Col., | $\begin{aligned} & 20,000 \\ & 20,000 \end{aligned}$ | $\begin{aligned} & 500,00 \\ & 500,00 \end{aligned}$ | Ontonagon co. . Mich SE 14.4 | P. C. Blancan, 35 Wall St., N. Y. S. J. Edwards, 22 W'm. St., N. Y |
| Hamitton, | 20,000 | $500,00$ |  | B. Townsend, 44 Exclange, | sonth Side, Societo Fraa | 10,000 |  | SE,4 Sec. 34. T. 55 . R. 34, W T. 58.59, N. R. 28,30 W, | 1. W. Nolson, Boston. Copper Harbor. |
|  |  |  | 20, 1414 A., | N.Y. | Superior, | 20,000 | 500.00 | W14 Sece 14, T. 50, N. R 3 | S. J. W. Barry, 12 Pino St., N. Y |
| Hancock, | 20,000 | ,000 | Wis Sec. 26, Tract of T. 5, R. 34, W., | 43 | Toltee Conso Ural, | 20,000 | 500,00 | Sees. 25.26, R. 50, R. 36 Wisconsin, | H. W. Nelson, Boston. <br> 17 William St., N. Y. |
| Hanov | 20,000 |  | T. ${ }^{\text {a }}$ | do. do. 3 cry | , | 20,00 | 500, | 1,120 A. Secs. 7, 17. 18, T |  |
|  | 2,00 |  | SW $1 / 4 \&$ W Sec. $33, \mathrm{~T}$ R. $40, \mathrm{~W}$, | 61 Cedar St., Boston. | Victoria, | 20,00 |  | Secs. $20,29,30,34.34, \mathrm{~T}$. R. 39, and other lands. | Clarke, B |
| Henwo |  |  | Michigan, | 57 1troadway. N. Y. 19) Nossaust vow | W. Minnesota, | 20,000 |  | Secs. 17, 18, 19, T. 50, N. R. |  |
| Hoper |  |  |  | Hor. Bigelow, 43 City Ex., B'st'n |  | 100.0 |  | Massachusetts. | A Sneden, 12 PineSt., N. Y |
| Huron, | 20,000 |  | see. 2,1 | Hor. Bigelow, 43 City Ex., B'st'o. |  | 100,00 | 500, | $\mathrm{e}_{\text {\% Oran }}$ | 191 B'way, N. Y. |
| Hiliton, ${ }_{\text {Inana }}$ | 20,000 | 5000000 | Michigan, | ${ }_{25}^{\text {W. Nassau st. }}$ H. Smith, 51 Ex. Place, N. Y. | Waula Yuma, | 600,000 20,000 | $000,000$ $500,000$ | Michigan, | 35 William St., N. Y. Baston. |
| Indiana Copper, Islo Royale, | 20,000 20000 | 500,000 | Michigan. | ${ }^{25}$ F. W. Chassaust. 33 Ex. Pl.,Boston |  | 20,000 | 500,000 | Michigan, |  |



AIMERICAN difumal of chtinuy. [n.acstraten.] GEORGE FRANCIS DAWSON, EDitor

## By publishing contributions, the Jorrsat of Mnisg does not we

OFFICE, 37 PARK ROW, NEW YORK


NEW YORK, SATURDAY, OCTOBER 6.
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## TO SUBSCRIBERS.

Those of our half-yearly subscribers whose term of subscription has expired, and who desire to renew the same, shonld do so at once, as we emnot always give them back numbers of the Jorrial of Misisa, owing to the great demand for bound vahmes-which we keep for sale at $\$ 3.25$ per volume. Subscribers desiring to have their files of the Jocrsal. neatly bound can do so by forwarding same with $\$ 1.00$ and the amomt of postal charges, to and from this office. Ital morocco, eloth and gold, \$1.50.

## RETURNING CONFIDENCE IN OUR MINES--A gLance at the "situation."

The Mine share market appears to have thrown off the apathy which, during the summer months, afflieted it, and we now hear daily of large transactions at fair fignres. We are glad to note that the pulse of the stock market beats so evenly, that the fever heat is gone, that the healthy action is confined to no one loeality, but permeates the whole body, so to speak. Not California, nor Nevada,
nor Colorado, nor Michigan, nor Montana alone, but all these and more too, are in good estimation. And there is abundant cause for it. Besides the recent more than ordinarily successful working of established gold mines in California, Colorado, Montana, Oregon, Idaho, and Nevada, new ones of more or less promise have of late been discoverednot alone in these States and Territories, but in others that had previonsly, to a great extent, been overlooked; for instance, near Great Salt Lake City, Utah ; in New Mexico ; in Arizona ; in Maryland, near Great Falls of the Potomac, said to assay from $\$ 40$ to $\$ 2,500$ per ton; near Cleveland, Ohio; near Lisbon, New Hampshire, where there is said to be quartz that yields $\$ 867$ in gold and $\$ 150$ silver to the ton; at or near Dahlonega, Georgia, where fine placere diggings and quartz lodes exist; in Virginia, where an auriferous quartz mine was last week sold for $\$ 50,000$; and in North Carolina, where it seems there is a regular network of veins, bearing a very superior quality of gold in profitable quantity. In silver, there lave also been some notable discoveries made of late in the Reese River and other districts of Nevada; in the Snake River and Argentine districts of Colorado; in the neighborhood of Superior City, Wisconsin ; in North Carolina and elsewhere-withont mentioning the steady success and increased yield of many of the older silver mines. The large yields of some of the Miehigan mining companies have created increased interest in copper, and new discoveries within California, Arizona, Colorado, and even New Jersey, have attracted marked attention, although perhaps unmerited in the case of the last-named State, where the ore seems to be too much broken up to amount to any defined lode. Then as to lead: Wisconsin, Illinois, Missouri, and Northern Louisianawhere a 33 ton solid block of the pure article was recently found-are all making a good show. We have heard of no particularly new available discoveries of iron ; but the iron mines of Pennsylvania, Ohio, Michigan, New York, Missouri, New Jersey, Massachısetts, Maryland, North Carolina, Virginia and Tennessee are all more than usually active and promising. In coal, Pennsylvania shows a constantly increasing yield, indneed doubtless by the growing appreciation of anthraeite for certain purposes. We see, also, that California (Mt. Diablo) eoal is selling cheaply to a ready market on the Paeific slope, and that of Bellingham Bay also is well esteemed. In larger or smaller quantities coal has recently been discovered in Illinois, Nevada, and Oregon. In petrolenm, too, since the repeal of the odions tax on crude, many new discoveries have been made and much has been doing; but it will of course be a long time before the almost fatal wound can thoroughly heal. Altogether, we may say without exaggeration, that whether in the mining for gold, or silver, or copper, or iron, or coal, the prospects were never so good in the United States as they now are ; and we are glad to see the revival of confidence, indicated by the present activity in the Mining stock market. Confidence begets both eapital and labor, and these again, if controlled and guided by cantious experienee, must indubitahly, in mining, as in any other business carried on in a legitimate manner, prove successfnl.

## an "unappreciated" district-why does'nt SOMEBODY GET EXCITED OVER IT?

The Reese River Reveille while stating that the diseoveries made during the past year in the neighborhood of Austin, Narada, " mndonbtedly exceed in extent and value anything of the kind ever before made known in the United States," marvels greatly that nobody is exeited over it, and adds : " It is not natural that this condition will continue." Now even assuming the former assertion to be true, we cannot help thinking the latter assumption incor-
rect. We think it a very natural and proper thing that no one gets excited over recent Reese River or any other especial discoveries ; and we think so because there are so many of them now-a-days, that ordinary people are bewildered, and not knowing which is really and truly best to invest in, go to the nearest, or else to none. But, recurring to the first-named statement : while we are quite satisfied that the discoveries and developments near Austin are really remarkable, yet we are equally satisfied that they do not "exceed in extent and value" many others that might be named; and we are of the opinion that it is a very unwise course for any journal to make such sweeping assertions. Facts are what are needed to induce an influx of capital-facts of the right sort, too. Not mere statements that this District has wonderfully rich $\mathbf{l}_{\text {odes, }}$ nor that rock from this man's mine in that District assayed so many hundreds or thousands of dollars to the ton. Such statements may do for some few persons who are blessed with more money than brains, but are of no earthly avail with solid capitalists, sensible business-men. Time was, when even they, to some extent-and to their sorrowwere influenced by gold excitements, silver fevers, petrolenm epidemics, but that time has passed, we hope, for ever. Stern lessons were taught in those periods of lunacy, not soon to be forgotten. The excellent consequence now is that sensible people who have noney to iuvest in gold and silver mines, want to know how much the rock will average by working-test, in quantity? - How much it costs to get the rock out of the mine?-How much to get the gold or silver ont of the rock?-What average quantity of rock can be taken daily out of the vein? How long will said averages of yield, cost, etc., last ? Answers to such questions as these are what capitalists require instead of flaming announcements and empty boasts. Our Reese River friends may console themselves with the reflection that, if they really have the most valuable mines, they will certainly, in due time, secure the most capital, for capital naturally gravitates towards the best opportunities for investment.

## "Mining Stocks are Dull."

San Franeisco mining stock dispatches to the Associated Press more frequently commence with the above four words than with any others, and from internal evidences we should judge that they are not always correct. For instance, the dispatch dated San Francisco, Oet. 3d, commences in that manner, and then gives the quotations thus :
Chollar, $811 \mathrm{~s} ;$ Yellow Jacket, 8742 ; Imperial, $\$ 4 ;$; Ophir, $\$ 190$; vage, 81.130
Turning to our San Francisco telegram of Sept. 26th, just one week before, we find the same stocks held at the following figures:
Chollar. 8110 ; Yellow Jacket, $\$ 670$; Imperial, $₹ 55$; Ophitr. 200 .
So that while during the week ending October 3 d , there had been a falling off in Imperial of $\$ 1$, and in Ophir of $\$ 10$, Chollar had advanced $\$ 8$, Savage \$20, and Yellow Jacket \$72! With such advances in the amounts bid per foot, we should think that there must have been considerable activity in those mining stoeks at any rate, unless they were run up by dishonest practices ; but even in that case the telegraph agent would be none the wiser.

## Montana Looming Up-"Millions for Defence."

Some of our Western exchanges, while blowing the trumpets of their own special regions, disparage others, and particularly Montana, which is declared to be "a failure," from which miners are returning disgusted. But Montana seems to believe more in deeds than words, and while decided to pay "not one cent for tribute" to her enemies, sends "millions for defence," as will be seen by the following telegram :

Sr. Locis, October 4.-The steamer Jenny Brown. from Mon-
tanki arrived at St. Josepb on Tuesday, with about one million
dollars in tank, arrived at st Joseph on Tuestay, with abont one million
dollars in gold-dust on reight and in the hands of the passengers.
Yesterday the stemer Yesterday the steamer Lulula arrived at the same phace witb a
million nud a balf in treasure, besides a large amount in the lants of the passengers.
What will her enemies say to this?

## A Mountain of Salt.

Washington correspondence alludes to speeimens of salt sent to the Postmaster-General from the district of Pahranagat, in the State of Nevada, which are said to have been taken from "a mountain of pure salt, several layers in extent and several thousand feet in height." Throngh salt blocks of a foot square a newspaper can be read, they are so transparent. This salt deposit must prove of great value to the distriet, as it is largely nsed, in many proeesses, for the treating of silver ore.

## SCIENTIFIC MEETINGS.

dolytechicic meeting-fire-proof gloves-s sew feel and what is chanhed for if.
At the meeting of the Polytechnic Institute on Thursday evening, a glove of Hnagarian make was exhibited. It is of asbestos, which the maker professed is adapted to enable an assayer to hold a heated crucible, but which the exhibitor lad not iested. The cost was $\$ 20$ per pair.
Mr. Lester exhibited a speeimen of patent fucl, which he said could be delivered in New York at $\psi_{2}$ per totu, and which would cost at no place in the States more than $\$ 3$. Peat, the basis of the finel, was found abundantly in all the States of the Union. He stated that it had twice the heating property of anthracite, taking bulk for bulk. It had 13 prer cent. $^{\text {pen }}$ greater specific gravity than anthracite ; and while ordinary anthracite left 18 to 40 per cent. ash, the patent fuel never left less than 3, nor more than 6 per cent. Besides this, there is a great saving in stowage, on account of the square blocks. Thus, a steamer which now carries 1200 tons anthracite, in crossing the $\Lambda$ tlantic would save hatlf the space now taken up by coal, and carry in licu thereof paying goods. The importance of the new fuct on the San Francisco and China ronte wonld be still greater. This fitel had been the object of study for Mr. Halstead and himself during the past two and a half years. They had inade above 1300 speculative trials, were themselves perfectly satisfiel as to its success, and were contstantly burning it under their small boiker ( 165 gralls., at Trenton, New Jersey, where it started the engine in seven minutes. It had also been used during a run of forty miles by a steamer on the river, when the saving of kindling-wood, usually employed in starting the anthracite, came to more than the cost of patent fuel. The Pacife Mail Steamship Company had oflered them one of their steamers for a trialtrip to sea, and in a few days he would send invitations to the members of the Institute to accompany it. The fuel is thus composed: Sixty to sixty-five per cent. of peat, abont twenty per cent. of anthraeite dust, ten per eent. coal tar, five per cent. as phaltum, but varying in proportion for different purposes, whether metalhrgical, domestic, or other The peat, dug in the usual manner, is laid in the air to dry ; and when dry enough to be mixed with the other materials into an amalgam, it is put into a press, and with one blow compressed. Next day it $i$ ready for use. It ean be prepared by any farmer Dr. Stevens objected, that since the value of fue was reekoned by the quantity of carbon it contain ed, and since peat possessed mueh less carbon than anthraeite, he could not see how peat and anthraeite together should produce greater heat than anthracte alone.

## NEW PUBLICATIONS

 1566. New York : Edwarl J. Sears, Editor and Publisher.
The present tolume of this valuable Review is unusully al and interesting, jutging from the carsory glane we lave given it. The titles of the articles are: The Julins Cessar of Naypoleon III.: the Plillosophy of Death; Arabian Civiliztion, and What
We owe It : Newtou and his Discoreries; Our Colleges and Our Churclimen ; Irish Law and Lawyers ; Sample of Moderu Philoso
phy ; The
Criticisul
amercan Exchange and Review. Forster \& Moon. Phtiladelplia.
Tie September number of this sterling monthly contains articles on Mazziui ; The Eye and the Light : Coton and its Manufaetures; American History ; Witcheraft in Great Britain; Mining and Metallurgy ; Monetary Matters; Insurance; Railways and Transportation ; Tatents, Arts and Science; Notes and Comments. Bevemcts' Tiye Tanles.-The October uumber of this valuable ittle pamphlet. published by Benedict Brothers, $1: 1$ Broalwny has reached us. It gives the revised timo tahles of the Post oflice, Railroads. Steanboats. and Ferries, location ot piers, with particulars as to fares, rontes, etc., so necessary for traveller and others to know.

## MINING COMPANY STATEMENTS

dames M. Cooger, Secretary and Treasurer of the North-Western Hiniug Company, of Introit, has issued for stockholders a cirmlar containing the followigg (to them) very important informaion: "Recent developments at the Copper Fall Mine have so important a bearing upon the interests of this company, that after personal investigation of the facts, the secretary and Treasurer has heen instructed by the directors to conmumicate them in this it is called at the Copper Fulls, has been worked with but woder ate success for a pumber of years. until lately in driving south of ate success for a pumber of years. until lately in driving south of
the Ash But into a belt of Amygraloud, towards the North. West ern, the vein was frind to be lighluy productive, yielding beavy placrs as much as twenty leet. Well illted with barrel work aud stamp copper. Some sixty toms of masses wero thrown down at
a single blast in the fisty fithous level, leavigg very large ile-
posits of the same discrintion losits of the same discription of mineral still standing in the
drif. 1 am maler great obligations to sr. Thomas, the gentle dring 1 am under great obligations to Mr. Thomas. the gente-
nanly
in
 The line of the vein having been run ont it is found that it is ty to eighty feet in depth on the east sille of the North- Western property some years ago. This lode pasess tbrough our nortl quarter section, into and through the Grecustme, giving us fully
five eigliths of a mile upon its course, and not less than 1.500 hive eighths of a mile upon its course, and not less than 1.500
feet south of the Grecent ne, where it protatly enters the lana
property. We should therefore tiols nbont the same relation t promerty. We should therefore lhold nbont the samo relation to
the Owi Crek vein that the Clif Sincs does to the great lode
which las been prodnct ive of snch prand results there with the which has been prodnctive of such grand results there, with the
same alvantages of working under the Greenstone indellitely
 found immediately sonth and mimler the Greenstone. as at the
Cliff Mine, and if this belicf is sustanel, the Owl Creek lode the North. Western will in all probability become a source of
great proft to the stockhohlers, Besides the important lacts just great proft to the stocklollters Besides the important lacts just
referred to. it it in the general opinion of goond mining men. conver
sant with the shen referred to. it is the general opinion of gooll minuig men. conver
sant with the sulhiect, that the old Sorth. Western Mline wonld
pay handsomely if it wne properly equippal with the peecessary say handsonely if it was properly equippal with the pecessary
stampiug machinery. The rompany is eutirely free from debt, and has two engines in good repair, tools and other machinery
and dwelling honses. (the latter rented at present to the Centr Mine), together with mi available balance ni the treasury of
86.CEO.

## MEETINGS.

Meramee Silver Lead Co.. of Missouri, election of officers, nt 2 a Vassan street, N. Y., on Oct. 16. at 12 m . Ophir Goll Mining Co. election of Trustees, at 70 Broadway, on Oct. 9, at 3 P. m. Ash burtou Coal Co., to increase works and production, at 38 Broad strect. N. Y., on Oct 15 . Rathbone Oil Tract Co, rlection of Di-
rectors, fa Wall street, on Oct. 8, at 12 m . Anderson Petroleum Co, election of Directors, at 25 Pim strect. O.t. 9. at 1 P. $\mathbf{M}$. Oct sth. St Py and Mcclintock Petroleum Co. election of Trus. tees, at it Broadway. on Oct. \&. nt 1 P . M . Noble Farm Pretro
lenm Co.. electiou nf Trustees, at 171 Broadway, on Oct. 8 , at 10 $\stackrel{1}{1} 11 \mathrm{~s} . \mathrm{M}$.

## DIVIDENDS.

Monnt Pleasant Coal Company \$1 per share; Roaring Brook Co six per cent., both payable at Boston. The Occan Oil Gs. has de clared a divident of $21 /$ per cent. Rnd the Meclintorkville Petro-
leum co. of 1 per crent, pach payable at the office or the company oum Co of 1 per

## Comxaymixur.

[To insure insertion of Correspondence in our columns the full
name and address of the writer must be giv. n.]
Letter from Professor Wurtz--Sodium-Amalgam Experiments at the Gould \& Curry Mill -20 Per Cent Increase of Yield.

## 57 Broadway, N. Y., Oct., 1, 1866

 Editob Jo: 8xal of MiningSie-My communication, made to the American Association, at Buflalo, having appeared in your columns, it has become incumbent upon me to give modify to some extent the statements in the said comnunication relating to the experiments in progress at the Gould \& Curry mill, in Nevada. My previous information was partly at second-hand, but that whieh I now present is direet from headgutarters. It appears that the efforts to manufacture sodinm at this mill were discontinued; a result easy to antieipate by one aware of the peculiar ditticulties to be encountered in making sodjum; difficulties which, as I can readily comprehend, must be so greatly entranced in a remote mining district that even Mr. Moore's well-known chemical skill might not suffice veloping Sodium Works, however, will soon render
superfluous any such efforts to produce this metal locally on a small seale

> Gocid \& Curby Asay Office,

Dear Sir-Your favor of the 10thinginas, august 114, 1866 . $\}$, meuts on the sodium-amalgamation processmade at the Gould \& Curry mill, was dnly reecived.
Thie experiments iu quustion
for that purpose at the laboratery of the $G$ sodium prepared brfore any of the metal could be purchased in Caliiornia. Tieey wore intended to form part of a phorchagb and systematic inquiry heen made, the of the process. But, atter two experiments hail been made, the preparation of the sodinm was found to be so
troublesome aud to interfere so seriously with the current work of the office, that thoexperiuents were discontinued until the metal could be obtained trom otber sourees. It was also foumd impraeticable to conduct the experimeuts in the pans used for tho general mill-work, and it was intendod to put up a couplo of pans of
the largest size, in a roon separato from tho rest of the mill, for the largest size, in a room separato from tho rest of the mill, for
that expross purpose. The pans in question lave receatly beon recieved and will shortly be put in operation. We have received through the kiudness of Prol siliman, about 5 , hes. of the hard
sodium-analgam.* which. with a quantity of the metal iself purchased by the $G$. \& C. Company, will be employed in the experiments. When the eourse is complete, I slall be very happy to
fernish you with the result, ineluding all of the details of working. Tbe tlist of the two exferiments to which you alludo la your letter, was uade in the Varucy thau heated witb steam, asd with no "chemicals." The resnlt was highly satistactory, showing a
gain in metal extracted of about 20 por cent. over tbo ordinasy process, while the amount of mercury lost was about the same. The second experiment was made in the tlepburn \& Petarson Pan,


## privess.

*This was sent from our works, by advico or Prof S
I have presented the results only of Mr. Moore, Who is the chemist of the Gonld \& Curry Co., omitting his deductions ; as each practical man will prefer to make his own inferences from the facts. The most important comment I would myself wish to make is that I should confidently expect, on repeti. tion of the first experiment with the steam-heated Varney apparatus, to better the resilts still further; on the ground that some loss of quicksilver (that is, of pasty and houred siver-amalgam,) is implied to hasy with a little, practle 1 have all amalgum from prostrict wish also to remart that the result with the Hepburn pan, being merely a necative result, cannot be justy regarded as arguing aysthing but, chsence of justly condition to success, which would probably be easily discovered by a little further experiment We ex pect soon to have results with the Hepburn and Peter son pan to present, which will at once remove al doubts as to the value of sodium in this form of ap paratus. Hevry Wurtz.

More About Hazel Wands, erc., "Puebla" Answered.

## Editor Journal of Mining :

Sir-Your correspondent, "Pnebla," will get further light upon his ideal "Hydrogeology," by adding the following to his propositions
1st. That it makes no diflerence what timber the soothsaying rod is cut from, no: whether it is green or dry
2 nd. That whalehone or wire is equally as good.
ed. It will work equally as well in any one's hands. 4th. And on the Desert of Sahara for water as on the ocean, or for gold in $W$ all strect as well as in mines; operates as well for lead as gold, copper as lead, clay as gold.
5th, and lastly. That the twisting or turning of a rod-held firmly in one's hands-is simply due to strain upon the cellnlar tissue or vegetable fibre-and not to any attraction of any kind whatever.
Superstitions will live-they go on through the ages. The soothsayer and eonfidence man is sough for to-day as tnuch as in the days of yore, befor science had taught the multitude.

## (Origimat Papray.

[whitten for the joubnal of aining.]
THEORY OF THE ORIGIN OF PETRO. LEUM.
by i. Vas Cleve pmilips, m. E.
In an examination of the stratified roeks of the Valley of the Mississippi, or basiu of the continent, the Potsdam sandstone is found five hundred feet deep below the Mississippi river, at Dubnque, Iowa; oue thousand five hundred leet deep in Belcher's Artesian well at St. Lonis; five hundred feet below the Ohio, at Cincinnati; one thousand five hundred feet under Pittsburgh; one thousand feet under Chicago; rising to the surface of the country in the great pincries of Central Wiseonsin, and is the rock forming the great dividing ridge known as the Ozark Mountains, in South Missouri. This rock evidently reaches its greatest depth from the surface of the country in the centre of the great coal basins under the grand
prairies of Illinois, and the great coal fields of North Missouri, Southern Iowa, and Eastern Kansas-also comes to-day, in Eastern Tennessee, along the Alleghany range, and in the State of New York. This rock was once the floor of an ocean. All the stratificd rocks above, which now form the lead and coal measures of tho great continental lead fields of Wisconsin, Iowa and Missouri, and the coal basins of this great valley (being, in the aggregate, five thousand feet thick,) were piled, atom by atom, on the floor of this ocean. Each of the strata has entombed in it the animal life that lived in the era in which it was being deposited. In walking along the shelving rock, seen at low water-mark along the Mississippi river opposite Dubuque, for miles may be seen in the weather-worn slabs of the blue limestone (the lower sill of the lead measures) fossil animals from an inch up to six feet in lengthshowing an outline of the animal life that swarmed in the waters of this part of the ocean at the time the blue limestone was being laid down. In the St. Louis limestone, the rock immediately below the coal measures, and the rock on which the city of St. Louis is built, can be seen the fossils of the animal life that lived in the waters of this ocean at the time this rock was being laid down. As we rise to the lower, middlo and upper coal series, the record of the animal and vegetable life that existed is marked in each plane of these coal measures. These stratified rocks were all deposited and laid down prior to the mapping out and abrasion of tho vallies of the river-systems. We find that to produce the present physiognomy of tho lead and coal fields, a vast amount of stratified rock has been removed by the abrading forces of air and water. A vertical section of the strata drawn across the Mississippi river at Dubuque, shows that six hundred feet of limestone rock has been abraded-three hundred feet at St . Louis, five hundred feet at Cincinnati, flve hundred feet at Pittsburgh, from three hundred to eight hundred along the line of the Mississipyi river, from Cairo to St. Paul ; from two hundred to five hundred feet from Cairo, along the valley of the Ohio, to Pittsburgh; from two hundred to three hundred feet along the vallies of the rivers which flow through and out of the great coal fields-the Mississippi, Missouri, Illinois, Wabash, Desmoines, Osage and others. The question might be asked, What has become of this vast amount of sediment or detrital matter? The commonly received theory is, that all the changes seen on the earth's surface have been produced by causes now in aetion. And if we follow the sedimentary matter now daily carried out of the mouth of the Mississippi river, we may reach some clue to the transportation of this sediment in earlier ages. Millions of cubic feet of silt, worn down from the hills and vallies of the Mississippi river and its branches, are carried out daily by this stream to the Gulf of Mexico. Thfs sediment is there drawn into the gulf stream, and swept north towards the banks of Newfoundland-turns east across the Atlantic towards the western coast of Spain, and is swept round southwest in a vast eddy, and over the floor of the central part of the Atlantic. This sediment, in comparatively still water, is being precipitated there, forming stratified rock-the same causes having at one era gone on when the Potsdam sandstone was the floor of an ocean-and all the stratified rocks from that floor for six hundred feet above the present site of Dubuque, five hundred teet above the city of Cincinnati, three hundred feet above St. Louis, and from two hundred to five hundred feet above other cities and towns along the rivers of this great basin were piled, atom by atom, above that floor. The abrasion of these river vallies was necessary to throw the coal and lead measures in basins, and inaugurate a valley ridge and drainage system. (For an explanation of the forces marking out and abrading the vallies of the rivers, see my three fixed laws to the Dynamics of the lead fields of the Upper Mississippi, published first in February number of Mining Magazine, New York, 1854, and recently republished in Jovrala of Mininga). The amount of solid coal veins cut out to establish this drainage system, has been very great-opposite

St. Louis three coal veins ten miles wide. Along the Mississippi, Missouri, Illinois, Ohio, Desmoines, Osage, and other rivers that drain the coal fields, coal veins from two to five in number, and from three to ten miles wide, have been abraded and cut away, to form the vallies through which these rivers now flow. The question that presents itself is, What has become of the vast amount of bitumen and oil that once existed in this coal, and must we not look to this as the source of supply of the oil of our petroleum regions? Oil is known to exist to a greater or less extent in ail bitumirous coal and shales of the coal fields. We discover in the abrasion of the vallies, that something like one-fifth of the original coal strata has been cut away; and if we can show how the bitumen and oil once in these coal veins could have been preserved and deposited in fissures in the Devonian rocks, we shall have a key to the great oil belts of the country. Dr. Kane, in his Arctic Exploration, speaks of a recent coal formation, where the vein was being abraded and was consuming, as exposed, by spontaneons combustion, and burned by a kind of smouldering fire, following along the coal vein when exposed. We suppose, at one era in tho abrasion of the coal strata, as the veins were brought to-day along the lines of our great rivers, that the coal was fired by spontaneous combistion, and burned by a kind of smonldering fire, for hundreds of miles along the lines of anticlinal axes, now followed by the Mississippi, Missouri, and other great rivers of our continental coal fields, that the oil by this smouldering fire was driven out, and settled in reservoirs in the Devonian rocks prepared by the economic laws to receive and preserve it. We must suppose the conditions on the surface of the earth at that time widely different from what they are at present ; that the ocean was thermal, and the pressure of the atmosphere different from what it is at the present era. If this should prove correct, the amownt of cil in a given district of country, will be in direct proportion to the amount of coal abraded and consumed to produce it-also depending somewhat on the more or less favorable geological conditions of the country to receive and preserve it.
[Concluded in our nest.]

## MARKET REVIEW.

Friday Exening.
Mining Stocks-During the week have been tolerably active, American Flag, which was quoted at $\$ 3.90$ this day last week gold was $\$ 1.15$; sold on Weduesday at $\$ 1$. Crozier gold was $\$ 1$ sold to-day at 95c. Consolidated Colorado 35 c .; sold on Wednes. day int 44 ., with considerable sales nt the beginning of the week. Carydon $\$ 6$ has risen to $\$ 6.25$, with numerous transactions Downieville gold $\$ 1.90$. Guanel gold las fallen to \$1.21. Keystone silver stands at 1 sc . Kipp \& Buell gold has risen from $\$ 1.25$ to $\$ 2.25$. La Crosse from $\$ 2.50$ to $\$ 2.90$. Liberty gold has falles to 36 e. New York to $\$ 2.40$. Quartz Hill has risen from $\$ 6.35$ to $\$ 6.50$. Smith \& Farmlee from $\$ 11.80$ to $\$ 11.90$ Canada copper from 80c. to $\$ 1.45$. Walkill lead, which rose from $\$ 2.85$ t
$\$ 2.40$.
Petr
Petroleum Stocks-Have somewhat improved, but with few sales.
Government Stocks-Are firmer. Conziderable sales of
 106.


Foreign Exchange is unsettled. Bills on London nt 60 days, $106^{1}$ @107 for commercial ; for hankers', "10: $\%_{6}$ (Q1083/a ; for bank ers' at short sight, 1053/@10914. Paris at 60 days, 5.25 (a.5.2 $\mathrm{I}_{4}$ Hanuburg, 3514@36.
Gold--The price ls still rising. At two o'clock it was quoted
Silver is steady at 61@ 12 c . below the price of golu.
Copper-The demand is not so brisk for ingot, and the sales light; $50,000 \mathrm{lbs}$. Detroit at 31 c . ; $25,000 \mathrm{lbs}$. Portage Iake, 303 cc ., $50,000 \mathrm{lbs}$. Baitimore for December delivery at 31 c
Iron-There is but little American pig offered. Scotch pig is firm, but without many transactions. The sales nre 600 tons Scotch iu lots at $\$ 4$ for Eglinton. $\$ 48$ (a) $\$ 50$ for Gartsherric. $\$ 18$ lo, Glengarnock ex-shtp ; 200 tons No. 2 at $\$ 45$. There is a good trade in har from store.

Lead-Prices are firm. The sales, whieh are not numerous, include 150 tons foreign at $\$ 687 / \frac{1}{2}$; 50 tons German at 87 . The stock on the 1 st inst. was 1,700 tous, against 2,200 tons at the same time last year.
Tin-The market for pig is quiet but prices firm at $21:(222 \mathrm{c}$. for straits. The market in Europe is rather unsettled in view of and the currency price stiffer in Tin Plates are in good demand There is also an upward tendency in the Euglish market.
Spelter is more active ; prieo 6 \% $\%$ gold. The price in Loudon has advancod to £20 5s. perton.
Petr leum is dull and lower at 25 3 $25 \frac{1}{2} \mathrm{c}$. for crudo ; refned ia bond at 40 a 43 c ., and free at 55 e .

## THE COAL TRADE.

## Frimar Evening, Oct. 5th.

One of those periods of stagnation which bave at times seized the trade has control of the market. Trade is exceedingly qulet, and prices are but nominal. Good qualities are in fair demand, but tendency to is bad. The last auction sale has evidently had a there a demand. The heary trade done early in the season has supplied large consumers. and now that prices are considerably lower, those whose means compelled them to purchaso when ac tually in need, are boiding off in hopes of lower prices. The re. tail trade has been a I tile active during the past two days of cool weather.
We note sales of 350 tons Liverpool Gas Caking coal at $\$ 1065$ per ton. 160 tons English Gas Caunel at $\$ 1400$ per ton. 500 to:s Luenst Mountain steamboat eoal at $\$ 625$ per tou of 2240 hs . The returns of traffic for the week ending October 6, as compared with those of the corresponding week last year, are as follows :

## Schnylkill Canal Bel \& Hudson...

## bel st Hudson...

 lehigh Val R.Lehigh Canal
 Hunt'n \& br Canal Top R
Scranton North scrantoal North
Scranton South


Report of Coal Transported Over Lehigh Valley Railroad, Week Ending September 29, 1866.

## Where Ship'd From.

 Central Coal Co. Central Coal Co.Asthburton Co...
Mount Pleasant Mount Pleasan
Hazleton.... Mazleton..
East
Nugar Woodside Co.... A. Pardee, Jr., Bro. \& C Co.
Stout Cal Co..........
Harleigh stout Coal Co.....
Harleigh.......
Aberville Coal C Aberville Coal Co.....
Jeddo (G. B. M1, \& Co)
Highand Col Highlaud Coal C
Coxe, Bro. \& Co.
Council Ridyo... Counce, Bro. Ridgo.
Buck Mountain Buck Mountain.
$\mathbf{N} . \mathbf{Y}$ and Lelig Honey and Lehigg
 spring Jountain Coleraine..
B. Meadow B. Meadown n. W....
John Connery ......
Rehigh Zinc Co...
J. B. Reher $\$$ co.. McNeal Cor..... Knickerboclier..
Coal Run Coal Coal Run Coal Co.
Rathbun, Eitns \& Glendon Coal Co.. Mahanoy..
Delano... Delano....
H. Meyers. Trenton Coal Co.
silliman....... W. T. Patterson. hamoking Coal Co Franklin Coal Co... Anlent ied... Lehigh nud Eusq
 Warrior Rinn. Warrior Run..
 Union...
Wyomin Wyoning,.................
Lehigh Coal and NavigaWeek.
Tous.
ciwt. $\begin{gathered}\text { previously. } \\ \text { Tons. Cwt. } \\ \text { Tous. Cwt. }\end{gathered}$

 tion Co......
Other Shippers.
Other Shippers....
Total.........
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Increase......
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351,129
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Coai deliver Coai delivered on line of
P. Haven and $W$. Ha-
ven Railrad.......
At Junction and at M. At Junction and at i.
Chunk for shipment by canal..
Total...
33.97813 6.89414 $\frac{6.89414}{40.57307}$

Notr.-Tbe Coal carried
by Lehigh Valley Railroa
Co. and dellivered tocana at M. Chunk, in 1865 , tanal not ineluded, in in the puh-
lished weekly lished weekly reports of
that year.

AMERICAN JOURNAL OF MINING.

Little Schuylkill Coal Trade to Saturday, Sept. 29.

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\hline 34,130
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Cumberland Coal Trade for 1866.
(From the Alteghauian.

Coal. Trape ry Rankoan.-statement of Coal shipmeats o
the Baltimare aud Ohio Railroad for the weck eudlug sept. 29 : the Baltimore aud Ohio Raitroad for the weck eudug sopt. 29

From Eckhart R. R.| Tons. |
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| 18 |

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& \text { Borden Mining } \\
& \text { New Hope................ }
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& \text { Larton } \\
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& \text { Potomac }
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Total.
For the month of september 41

Prices of Coal by the Cargo At New York, Oct. 5, 1866 schuylkill Red Ash by Boat Load


Prices for Pittston Coal at Newburgh Lump. per ton of 2240 lbs .
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\begin{aligned}
& \text { From Cumberland and Pa. R. R. }
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 Gownie
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Glace Bay........ Glace Bay........
lnternational Co. Slack coal. Some eoal from
rency, delivered.
Sydney to N.
Lingan..

## Glace biy.





## WEEKLY COAL TRADE CIRCULAR

Prices of Provincial Coals.
[Reported por the jocrsal, of mining.]
Block House (ou board)
(.)............. N . Y . \$200 gold.
$\qquad$ $\begin{array}{ll}75 & 0 \\ 50 \\ 50 \\ 09 \\ 74 & " \\ 75 & 0\end{array}$ Foreign Freights

t $\stackrel{\square}{2}$
get, New brunswiek to New Yort
git, Mauch Chunk to New York.
Freights on Coal to Elizabethport. - N. J., Eastou to Elizabethport

Total... | 58 |
| :--- |
| 90 |
| 123, |
| 80 |

 BY H. L. PARMELE
32
32 Gas Coking .
"Gannel..
House
Iocse ..

$\because r$ tou 2240 lhs .
. 1600


The trade during the past week has developed no change Iron ts previous condifion of " masterly inactivity," Prices remain
without clange from the fact that many of the leading collierie without change from the fact that mauy of the leading collieries
lhave stopped, and the rates now current are below the cost o production ; so that it does not seem possihlo that coal ean go any lower. The lessened amount of coal now eoming forward tinds purchasers at the present current rates. The eool weather wily
have its effect in inereasing sales from yard by retail, aid many think prices are likeiy to appreciato somewhat when the autumn trado really conmences in earuest-which cannot be much longer
delayed.
L. A. \& Co.

## FOREIGN MARKET REVIEW.

Weekly Metal Report.
y During the early part of the week the metal market showet
symptoms of depressiou, hut we are glad to say that a better feelling is now apparent, aud prices of all metals show a hardening
tendeney Iros.-There is no alteration in the position of Welsh and Staf tordshire. Finished irvo orders are conning in gradually. Scotch pig irou, alter declining to 54 s . cash, has recovered to 54 s .9 d . Copprg. - The news by the last mail from the Pacific is consid
ered favorable, and bayers have cone forward lor Eug ish and foreign copper at the following quotations: Burra, Es9; Walloroo £8s 10s,; Chili, $\mathfrak{£ 8 1 \text { ; best select, } £ 8 9 ; \text { tongh, } \mathrm { £ } 8 8 6 \text { to } £ 5 7 \text { ; accord }}$ ing to prompt. ing to prompt.
at $£ 81$ cash; Banca, $£ 3 \times$. English tin obtainahlo an trifle under smelters' quotations. The Dutch market is dull at 4ifl.
Tis I Latss maintain their position well.
Tis I lates maintain their position well.
Erestrk.-The market has deelined to $£ 20$. 2 s . Gd. on the rpot, at whieh several pareels have changed hands; f20 10s. demanded
lor forward delivery. Special thrands in oatports. $£: 20$ 10s, to $£ 20$
15 s.


## Oil Trade Circular.

The market las shown no material change simice our last re-
port. The export orders, as well as hotucdemand, continue very The market has shown no material ehange sinco our last re-
port. The export orders as well as houcdemand, continue very
 Rerfinen Perrougum.-Liverpool and Lo
Credr.-Demand good at f17 per ton.


Rbrisat Coas Oit of flue quality meets realy buyers at 1 s . Od. to 18. 9l. per galon.
Ovce Rev.-Buyers
oil, hut sellers refuse.
CRuDE. $\delta f 710 \mathrm{~s}$. to
Cs per ton
GrEasg.- 55 to 116 per ton.
PARAFFIN WAX. $61 . t o 1 s$ per it


NEIV YORK METAL MARKET.

| Corper-Ingot. . lake Sup.rior, flb., cash. | $\begin{aligned} & ., 30 \% \\ & . .31 \end{aligned}$ | 313 |
| :---: | :---: | :---: |
| Pig Chili......................... |  |  |
| Bolts. | . 4 . |  |
| Braziers.. | .. 42 | 43 |
| Yeathing.... |  |  |
| --Pig......No. 1 Ecotch, ${ }^{\text {er }}$ ton | 4. 00 | 4900 |
| No. 1-American | 4800 | 5000 |
| No. 2 ' | 4500 | 4600 |
| No.: Charcoal. |  |  |
| Bar.......swedish, ordiuary sizes. | 170 |  |
| Amer and Eng refined...... | 12500 |  |
| ." ${ }^{\text {a }}$ eommon.. | 11500 | $12000$ |
| Rails, American currency. |  |  |
| Horse shoe iron......... | 110 io | 10000 |
| Rods 5-8@3-16 rd. and | 13030 | 18500 |
| Raud... | 15500 |  |
| Nail rods, 5-8 aud 3-16 | 12250 | 18500 |
| Hoops. | 18000 | $\bigcirc 2500$ |
| Eheets, Russian, ${ }^{\text {e }}$ Ih | .. 28 | .. 30 |
| $\because \quad$ English | .. ${ }_{05}^{61}$ |  |
| " Boiter Plates, Euglish".. |  |  |
| Boiler Plates, Euglish.... |  |  |
| eL... . . . . . . Best cast in bars, war | $\cdots$ |  |
| Best sheet cast, "\%..... | 25 |  |
| Best cast circular saw plates 46 in. | .. 31 |  |
| Double shear steel, war... | $\cdots{ }^{25}$ |  |
|  | .. ${ }^{22}$ |  |
| Montagne \& Co. C. S, in bars | .. 22 |  |
| Round machinery cast. | ${ }^{1} 16$ |  |
| Goverumeut Ger | $\cdots$ |  |
| Fagle German.. | .. 15 |  |
| (L.) Blister, war | .. 21 |  |
| W.Jessop d Sons, blister,war | .. 18 |  |



SAN FRANCISCO STOCK MARKET. Latest by Telegraph.


Coal and Iron in Wales-The Mines- Stcel and Iron Works

Mr. John L. Pott, of Pottsville, Pa., writes from Nantyglo, South Wales, August 26th: "I reached this place on Monday last, and have all this week
been engared in visiting the principal iron works in been engaged in visiting the principal iron works in
this part of the country. There is a chain of large this part of the country. There is a chain of large
works running from this point east, in the following works running from this point east, in the following
order, viz: Nantyglo, Ebber Vale, Tredegar, Rymney, Dowlais, and Cafarthy From Nantyglo to Cafarthy is about 12 miles. There are other large iron
works ineluded in the above range, which we have works ineluded in the above range, which we have
not visited. Pendaren, Plymouth, Victoria, dc., all of which are quite extensive, and wonld well repay us if we could spare the time to go there. There are 14 blast furnaces belonging to the Nantyglo Works,
and rolling mills to make all the produce of these furand rolling mitls to make atl the produce of these fur-
naces into rails and bars. Everything here looks naces into rails and bars. Everything here
dilapidated and run down, and 50 years behind the times. It takes hard scratching to get the coal and ore, and as to iron ore, judging from specimens
have seen here, and information I have received from have seen here, and information Ihave received from
the boss miners, I believe we have more in Sehnylthe boss miners, 1 betieve we have more in selinyl"spotted vein" (as it is calted here), is only abon 4 inches thick, aud in the slate above it are a few scattered balls of ore, which, incluaing the 4 inches, Will give only 10 inches of solid ore, in five of mining. most of the iron in Sonth Wales has been made, Willian Kendrick has better seam iron ore made Clair shaft than any I lave seen in South Wales, Clair shaft than any 1 have seen in South Wales. tried to persuade himn to work it before 1 left home;
1 wish you would urge him to do so. He lasa a 10 inch vein which would yield 200 tons per acre if he could mine but half of it. I think the time has not eome for this. You started 20 years too soon. The Ebber Vale Co. lhave 23 blast furnaces, 100 pudding
furnaces, and about 70 heating furnaces, and mann facture 2,300 tons of rails and bars per week. It was bere that Parry's experintenta were made, and we saw his cupaloes and converters. Mr. Abraham Darby, the principal owner and active manager of the work, went with ns, and gave us all the information we wanted. He is hopeful of the ultimate success of Parry's proeess, and thinks that there will be many advantages in it over Bessemer's. But notwithstanding this, he is now erecting one of the most extensive Besssmer works in the eonntry. In fact, Bessemer's Steel W orks are going up all over the eountry,
and we have not been at a single steele work which was in operation that was not also at the same time being enlarged. This establishment is fully up to the times, and we found all the modern improvements. Here, everything looks dilapidated, as everything does at Nantyglo. We saw eoal and iron ore raised within a stone's throw of the furnaces and mills. Nature has done much for the iron manufactures here, and they have availed themselves of it. When we in Schuylkill county understand and take advantage of our resources, a new era in iron-making will commence, whieh will make our connty the great, iron-making county of the State. At Dowlais Iron Works, there are 18 blast furnaces, 106 puddling furnaces and 86 heating furnaces. The present produce is about 2,000 tons of rails and bars per week-can make 2,500 . In the rolling mills are 19 trains and 4 blooming mills. The machinery here is at1 first-class and looks modern.
have seen yet, and turn out 230 tons of steel rails
per week. There are extensions of these works
under way, almost completed, which will inerease the under way, almost completed, whieh will inerease the
yield to double what it is now. We got samples of steel rails here, and much valuable information. In fact at all the works we visited in Great Britain, we have uniformly been treated with the greatest courtesy, and have had no diffieulty in getting information. We have always been candid and stated what our object was in visiting the works, and have been as candidly answered. At Crfartlyy (Car-var-ther) are 11 furnaces, 5 forge traius and 7 finishing trains. The produce is from 1,800 to 2,000 tons per week. This, for order and cleanliness, is the model will of South Wales-probably in the world. The yards are swept clean, and the puddle bars piled in the shape of houses, street. There is yards, and is the very reverse of Nantyglo, whieh I suppose to be the dirtiest place in the world. There is an order at Dowlais for 27,000 tons of rails for Egypt, but the general complaint here is a scarcity of orders, and many mills are working on stoek, as they eall itlarge orders when they do come."

## Quartz Mining in California.

"The extent to which the area of the quartz fields in our State have been enlarged since 1860, is hardly realized by the public. Prior to that time, the productive quartz belt was popularly thought to be quite narrow, and confined to a few of tbe central counties. Outside of the most intelligent eircles, it was not supposed that we had any rein mines worth working except auriferons quartz. Subsequent explorations have revealed the fact, that the field of our vein mines is co-extensive in length and breadth with the great mountain cliain of the State ; that it embraees also, to a considerable extent, the lesser
mountains that front the ocean, and that it includes mountains that front the ocean, and that it includes
a great variety of minerals, but especially gold, silver and copper. The width of the quartz belt in the Sierra Nevada has not been measured or care fully estimated, but it undouttedty extends from the outer edge of the foot-hills to the summit levels, distance varying rfum sixty to eighty miles in a di rect line; while its length, from the northern to the sonthern border of the State is about six hundred miles. It is to be regretted that there are no statisextent of the lodes that exbeenc namber and
 operatio, the mount of capith inested and the operasate proluct in gold apd other metts. Suct aggregate prodnct in gold and other metas. Such interest of Califor perous or dation and it is a pation that no adeluate method for obtening them has been devised But we learn enough from the rapid nultiplication flistricts, from the frequently published yields in rold and eopper espeeially, and from the repeated sales of lodes athigh figures to an own citizens, to know that vein mining in our State is rapidly taking preecdenee of plaeer mining, and establishing itselt as a permanent, legitimate, safe and remunerative industry. It still has its incidental eycitements and temptations to speculative overdoing, but these are not and never can be equal to the great furores ereated ty Washoe, and are, perlaps, no more remarkable or injurious than the excitements and specnlative tendeneies diseernible in the more soter walks of trade and commerce. Indect, trade and miuing now go almost land in hand, for we observe that many of the heaviest investmente in Calioruia quartz are made by citizens of San Francisco, who, atter many losses and deceptions elsewhere, are turning with new faith and energy to the developtain facts not yet mentioned, which strengthen the growing popularity of California vein mines. Many dredem have been worked to a depth of many huudion leet withont signs of deprectation or exhausRod. Contrary to a theory once advancen by sir tiverick Murchison, they do not decrease in productraryess as they increase in depth, blt, on the eontrary, the ore streak is commonly found to widen, Californint always grow richer; and we believe no certain whin conpany has yet gone far enough to as. consequeut upon tho increase of depth, overbalanees the gross yield of a vein originally profitable. It was thought at one time, that with great depth would come an accumulation of water, involving a cost tor pumping alone in excess of the gross yietd, or ma king pumping impossible; but a majority of our mines are so situated that they ean be crained by tun1 Is to a depth reaching many hundreds-and jin numerous instances, thousands of feet. The excavation of great drain tuanels is, in nearly alt he
quartz districts, thoroughly practicable, and will bo successtully proseented whenever necessary, tbrough a combination of interests and capital, if not as a matter of independent enterprise. The most of onr vein mines are situated in close proximity to the
finest timber. The gold and silver ores are usually free from base metals, and ean be worked at a cost
far below that required in any other mining terri-
tory on this coast. Further than this, the mountains in which they are found contain large quantities of arable land, and are finely adapted to settlement for agricultural purposes, abound in beautiful scenery and possess a wholesome and agreeable elimate. Up to an altitude of three or four thousand feet, all the products of the lower valleys can be produced, and as ingh as from five to cight thousand feet, in the region of deep winter snows, all the products of the manent towns be maintained.-San Francisco Bulletin.

## Sir Morton Petu on Our Mineral Resources.

Sir Morton Peto, the great railroad king of England, has just published a statistical work on the resources and prospects of America, in which, according to $\mathrm{Har}-$ per's Weekly, he says: The mineral wealth of the United States is very great. Gold is found in some of the Eastern States, particnlarly in Virginia, the Carolinas, and Georgin; and the gold-producing region of the West-still very partially explored-including the states of California and Oregon, and the Territories of Utah, Nevala, New Mexieo, Dacotah, Washington, Colorado, Montana and Arizona-an area of more tha a milliou of square miles, extending from British Columbia on the north to Mexieo on the sonth, and from the Eastern slope of the Rocky mountains to the Pacific ocean. Silver mining may be said to be only in its infancy, although in New Mexico and Arizona, which were aequired from Mexico in $18 \not 8$, silver mines have under a better government, they will now probably oon become greatly more numerous and productive Au immense lode of sitver ore, known as the Comstoc Lode, has beeu discovered in Nevada, which is rapidly iucreasing in population, while new silver mines are
continually being opened in different localities. Iron continually beng opened diferent lacities. Iron and is widely distribnted. Perhaps in no part of the world is it more abundant than in the State of Missonri, where great hills are entirely formed of it. Little, however, has yet been done to turit the iron ore of the Missouri to account. The district is deficient in coal and the railroad system is too incomplete to supply this wan. Another district, extrenely rich in irou but hitherto almost nnproductive, lies in the norther part of Georgia, passing into Alabana. It is in Pennmost largely worked. There are iron produeing districts also in New England, New York, Ohio Virginia and both the Carolinas; and during the last ten years a consideratle amount of capital has been invested in irou-mining in Miehigan, on the sonthern shore of Lake Superior. But the irou-masters of America can hardIy hold their gronnd, as yet, against competition with imported iron. The vast supplies of iron ore which America possesses are rather to be regarded as a store for fiture ages than as a souree of wealth to be largely developed in the present. There are very rich mines Ke copper on the shores of Lake Superior, near Kcewrenaw Point, where masses of native copper of ex also wrouglug been wrought in New Mpxico. Lead is consin, bid not to agreat extent, been found in Cal ifornia, and towa. Quicksilver has been found in Cal The coal-fields of Ameriea are the greatest in the world. They are computed to be thirty-six times the extent of those of Great Britan and Irelind. They are chielly situated in the basin of the Mississippi and its tributaries. The whole annual produce of coal, how ever, does not yet amonnt to much more than fourteen Wood is the or about one-himb of that of Britain. Wood is the ordinary fuel for domestic purposes, and cans dispense with steam wherever they can avail themselves of their "water privileges." The abuntheme of iron, coal, wal limestone $i$ a merica, bow dacr is ever, is suggestive of great expectations concerning peopled and atble to make use of its own densery peopled and able to make use of its own mineral
treasures. Sir S. M. Peto devoles a chapter to petrotenm, or rock-oil, and gives a most interesting account of tbe American cillwells. The oil which flowed from oil-springs was mervly colleefed by skimming it from the surface of water on which it floated till I858, when a well was sunk in Pennsylvan:a, and at once began to yield 400 , and afterward 1000 gallons a day. Grea exeitement ensued. and a seareh tor oil began throughout the whole district. Many of the experiments wer unsuceessful, but when oil was struck the fortunate adventurer was sindeuly enriched. Some of the wells sield oil without the troutle of pumping ; it flows from them in a copious stream. Some wells yield 2000 bar rels, and one even 3000 barrels daily. Towns have sprung up in the oil-disitrict of Pennsyvania : and in Oil City business is now fransacted to the amount of $\$ 3,000,000$ annually. Other parts of America have also been fonnd to be rich in oil. It would be out of place here to more than merely allude to the oil wells of Cazada; but there are oil-fields in several parts of Pennsylvania, in Ohio, Kentucky, and Virginia, while it is said that indications of oil have been found in many
other States.

## Nitro-Glycerine.

Lloyds' Salvage Association requested Capt. Grant, R.N. and t'rof. Abel, Chemist Royal Arsenal Labortory, Wolwich, to inquire into the nature, use aud danger from carriage of nitro-glycerine. They reported that it is exploded by concussion, neither by riction nor fire; generally a triling percussion is ten times that of gunporder it is nsually carried in times that gunpowder. $1 t$ us ally carried in tin cans holding each about 25 lb . weight or the oil. It has all the appearance of ordinary oil. The cans are packed each in a wooden case for carriage. The Hamburg, and by other persons abroad under his Hamburg, and by other persons abroad under his and is extensively employed botit abroad and in this country. The Committee append to their report a notice which has been issued by the Prussian Goverument. It says: The transport of nitro-glycerine by land or by water, espeeially also by rail, can therefore only be allowed under the same conditions as those referring to the transport of ignitable jars, in those referring to the transport of ignitable jars, in further means of precaution: The nitro-glycerine further means of precaution: The nitro-glycerine
must be packed in bottles, made either of tin or strong glass. The bottles must be closed by a stopper of cork, not of glass. The glass bottles used for the transport of blasting oil must be cased with cork, having an inside lining of straw. These packages, tin bottles as well as the incased glass bottles, mupt be packed in tight wooden cases, straw, hay, or such like, to be used for packing. The cases must be marked "sprengoel" (or blasting oil) on the outside. Sending "blasting oil" by post is strietly forbidden. As the nitro-glycerine in a temperature of a few degrees above zero crystalizes, and is in this condition, according to experiment, more likely to explode, a greater amount of care is recommended during the colder season of the year. As regards the warehousing of blasting oil, the same orders have to be complied with as those applying to gunpowder and other explosive artieles. Whosoever aets eon-
trary to these orders will be fined not execeding trary to these orders will be fined not execeding
$\$ 10$, or, if unable to pay, the offender will be punished by proportionate imprisonment.

## The Properties of Nitro-Giycerine.

M. Kopp the ingenious $\overline{\text { French chemist writes: that }}$ nitro-gly cerine is a yellow brownish oil, heavier than water and insoluble in water, but soluble in alcohol and ether; that prolonged exposure to onlya feeble degree of cold causes it to crystallize in elongated burning that when spread esily inflame it, and cannot be made to cause it to burn more than partially; that a flask-full of it may be smashed on a stone pavement without the nitro-gly cerine detonating; that it may be volatilized without decomposition by a regulated heat, but cannot lcng undergo brisk ebullition without exploding; and that a drop made to fall on a moderately hot plate volatilizes quietly, but on a red-hot plate immediately inflames, burning like a grain of gunpowder, but without uoise, and on a plate hot enough to cause the nitro-glycerine to boil immediately decomposes with a violent explosion. He adds may decompose spontancously after a time, with dis engagement of gas and production of oxalic and glyceric acids, and he regards it as probable that some of the mysterious explosions of nitro-gly cerine which have recently taken place may lave been due to this cause. "The nitro-glycerine," he says, "being enclosed in well-stoppered bottles, and gaseous products of decomposition, not being able to eseape, exert a very great pressinre on the nitro-glyeerine; and under these circuustances the least shock and the slightest motion may bring abont an explosion.' And yet, the vapor whiel it gives off being so poisonous, nitro-glycerine must not be kept in open vessels.

## catent elaims.

Interesting to Miners, Millmen, Metallurgists Oil-Men and Others.
The following elaims have recently been issued from the Uuited States Patent Otfice : 58,197.-Distiliavo Oil.-Samuel Andrews, Cleveland, Ohio:
1claim. , st, The fre-chamher. C, and reverberatory chamher,
in combination with the throst, ©, and the opening

 Mort, A, as and for the purposes spiccifild. 3, The flues, J, wheu separated from tho walls of tho retort hy
the wall, $J$ as and lor the purpose set lorth. the wall, $J$, as and or the purpose set torth.
58,229.-Machine for assorting Potatoes, Coal, Etc.-
 58,238.-TurERN. - Benjamin Fish, Mechaniesbnrg, Pa.


tiou wi
lorth.
ion
lorth.
58,239 .
s,239,-Method of promotino Combustion in Fur-Naces.-Clark Fisher, Trenton, N. J.:
crianu the employmoat of hans, or other suitablo air-engiaes, apward for the purposo of promoting the comeys, and directed furuaces, hy forcurng cold nir directly into the chismaevs, at point whict are albove the heating surfaces hut near the base of the
chimaeys, at natuaes, at n greater velocity than that t w
natural draught, suhbstautially as deseribed.
58,299--Borivo and Pumpino Apparatus for Oil Wells.-John B. Koot, New York City. Ante-dated
Sept. $10,1866$. Sept. $10,1866$.
1 clain thio
action steam engine, action steam.engine, the borizontal platiform and guides on tho
derrick, and tho boring bor or dial rod aud pump, sulstantially
as nud tor tho purpose hereen specinod.
58,335. - Amaloasators.--S. Frederick Charles, assignor to himself and J. E. Russell, Dahlonega, Ga.:
1 elaim. 1st. The so conhining a panning nachiae, a re-gring 1 clain. 1st, The so conhining a paning muchiae, R regrind-
ing machine, and an amalganator that tho gold shall he thoring machine, and an anaigamator, that thio goll shalil he thor-
oughly extructed by
by stantally ns set fori
2. The a
2., The adjustahlo partition, R, constructed aad operntod sub-
staatially and tor the purpses see forth. 3d. The deep radiating chamels, 3 in 3a, The deep ratiartug channcts, J , ia tho lower suffaco of the 4th. The combinatiou of an upper revolving grinder with an os
cillating lower one, constructec ud ${ }^{\text {speciffitu }}$. The case or shell, M , of tho grinders, in combination with the rollers, 1 , and the reciprocating nrm or lever, 0 .
 aud adjustalslo partition, o, substantially as specitied.
 suspended below the surfaco of the muriferous mass, construu
and operatiug substantially as nid for the purposes specifed 8th, The location of the flue below the serics ol amalgamators snhstantially as aud for the parposes specitled.
58,360.-P PMP. - Louis Drescher, assignor to Gustavus Meyer. Matatazas, Cuba.:
 hination with spring disks, g. npp

## Sprcial Srimntitic Brewition.

AD. M. D'Archiac reeently laid before the Academy tin the bituminous shistus of Muse, atear Autua, ,onoue.etLisire.
 wan round it appears that thero were together winh it seme flsh,
copsoliths aad plauts at a depth of two metres below a quarten-

 ongs to sir. Owen's Gansecphali, straige vertrehrate, with un-
certain ctaraecteristics, seempingty representing the embryo age of

Actiuodon, There is at present on one of the lakes of the Bois de thoulogne a b bat that noves about without elther sheann
oars. sails, or any other visithe treans of propulsion. The powe
 aice, communicates a rotary motion to a pair of paddle- wheols.
The experimeut is curious enough, but, unfortunately, the princi-

 kilogrammes of coal, so that $t$
RJO The most powerful microseope ever made has
been constructed by Blassrs. Poweil \& Lealand, and described in a paper recently reail beliro the Royal society of Loudou. The
 whit had beforo beec considered the uturost attiinable liwit of
periection int this instrument. This mieroccope maguifes 3,0o0

 RTo. A process my which the gas used in every houseMr. Russell, in Enyland, who clains that witl a refuse vegetable
 illuminating power of that now supplied by gas-eomplanies, and al
hall the price. The kitcheu rante is to contain the retorts, and hall the price The kitcheu range is to contain the recorts. and
the inamficture of the ghe, which is pure, white and oriliant
 ce.s is reatily salceable at a good price.
 tined wing yellow. Difised light received at noon through a
cloudy sky deviates py one twenty second part of the ctromatic cloudy sky deviates by one twenty second part of the cbromatic
circle from the extremie red of the spectrun towards tho violet The light of hurning magnesium, which appears to he so like sunlight. Has also a tinge of violet.
Ha. A chan was east by a German workman at the moro thau 1 ! on. 1 ts length was 5 feet
日G- The bells of the Paris ornamental clocks are

## 

RTV. The eopper districts of the United States, cast than those or Lake superior, are as follows: Virginia, upon the
Hhe Piolger Hine Ridge range, in Carroll, Floyd, nd Gayson Cunttes; North
Carolina, Guillord County, etc.; Teunessee, Polk County; Georgia, Carolina, Guillord County, etc. ; Tennessee, Polk County; Georgia,
antong the line of Gilmer County ; New Jersey, Schuylor mine of along the line of Gilmer County; New Jersey, chuylor mine of
Belleville; Connecticut, Bristol mine. Sost of these mines have
been abaudoned those ol Virginia, Tennessee, Georgia and ConBellerille; Connerticut, Bristor mine. Sost of these thines have
been abaudoned; thoss of Virginia, Tennessee Georgia and Con-
necticut were, at one time, vigorously worked ; the tureka and necticut were, at one time, vigorously worked; the Lureka and
other companias of Georgia nud Teauessee have, at times, yielded a profit to their stockholders. markel this year over the supply of is6\&, whicb was the largest quantity sent to market in a siaglo year ia the history of the
irade is upwards of two millions seven hundred thousand tons. No A letter from Leavenworth, Kansas, says that
shafts nre being sunk througlout tho State for coal, the surveys
made by prominent geologists warranting the efforts made. Coal
has been discovered in large quantities upon the prairies and
within a radius of tea miles irom Leaveuworth, but thero are par within a radius or tea miles iron the are now and a shaft has been sunk five hundred feet, and their prospects mprove the decper they gev.

Reoting star." Following the course of lady observed a she wituessed its descent direetly beueath her window upong the grass. On approachiag the spot, Mrs. C., discovered a white suhstrongly of sulphur. It was seut to Bostoa, and submitel it 1r. Jae
lite.
n They Gravely now consult about
And depreciato the evill hour-
As coal makes iron- ron powe
No matter, when arrives tho dny,
They can get lots of coal this way.
RJT The United States Sub-Treasurer, of San Fran$\$ 8,000,000-$ which figures are not eunhraced in the Jpeciary last, tilo account.
${ }^{20}$ Prof. Agassiz says that the strip of highlands flowing into the Atlantic, is the oldest land in the world. It was once a lonely sen beach, washed hy a universal ocean.
${ }^{2 \pi}$ Commissioner Rnggles states that the West will bo well represented in the Paris Exhinition. The minerals of the It is reported that the gold mines in Plymouth,

## gill §uxt,

Rio Sidney E. Morse, of this city, has just patented phillosophicai mstruncht, which is calew a bathometer. You
throw it overborid, with its nppendages, in the ocean, where water is miles deep. It goes dow a like as slot, and as soon us it pich ine the bot tom it turns and cones hack the tho surface. You
piok the true deptit of the water where it struck the botton is seen on the cate of the
degree of heat oa the themon
昒 Amongst the curiosities which are to fignre in


 Ros The Union Pacific Railroad in California as being hundrod to une hundred hud sixteen feest to the mile, nad curve if ive degress. Yet a san Francisco hult cugine has made thirty
dve miles per hour over it running tway tive miles per hour over it running toward the summit of the
mountans ind drawing a traill ot cars. So says the Mining

ET- The comsumption of horseflesh in Paris in-


Ae It is reported that the French Government has nechex on a new rite, liring eightitent ronuts a minute, and that Anerican showed his system to the Enperor a few days saro, who
thought it pretty, but xaid his guus would in future decile hatles. RNT A New Hampshire hen, since Janl. 20th, 1866, has
 conmeneed her tenth dozen of "kggs. The ilrst brood was mark
ne " Mohammed, in one of his visions, says the
 nust have hal to his huse ! their peas, actors mind thei
 ero' Two sisters lately met in Baltimore after fortyeipht tears, separation.
stitit talking at last acounts.
 they "swing corners."
De The difference between a girl who tears her Iress, and one who " pals" is that oae busts ber stuff, und the
other stuffs ber bust RJT" Sambo, "whars de hoe?" "Wid de rake."
Whars de rake?" "w Wid de hoe." ". Whars dey hoth"," "Dey "Whars eo rak

## special notice.

Rellanis' laon Trane Grecular.-The right of publication of the Iron Trade Circular (Rytands), with the copyright and
goondwill. was sold hy auct won at the Hen and Chicheng Howl Sirmingliam, yesterday, hy Mr. H. Smitb, uader an order of the High Court of Chaticery, made in a cause, "A Rytand vs. Holt and others", Tue lirst bid was $£ 100$, and anter a spirited competition
it was knocked down tor EBSO . Mr. George Ryland, one of the

## PROSPECTUS.

The necessity for a thoroughly reLadBle mediunt of information upon mining nattres has ocen serionsly felt by those interesta 1 in the mines and mills of he United Etates. Tuk American Jorrxal of Minswa supplies that It is under the elitiorial control of Ggorge Frascis Dawson, whose reputation is too well established to require, oa our part, any coniment.
Tiere is amply sufficient capital invested in the Jocrasal or Misisg to insure its complete suceess.
Tar Jockalal of Minisg coutans-or will contaln in future issues :

Seventeen wide, solid columns of condensed, summarized Miu-
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