

Engineering and Mining Journal

INDEX TO VOLUME CVI

July 1 to December 31, 1918

McGRAW-HILL COMPANY, INC.
10TH AVE. AT 36TH ST.
NEW YORK

THE GREAT BRITAIN
LIBRARY

100

THE GREAT BRITAIN LIBRARY

THE GREAT BRITAIN LIBRARY

THE GREAT BRITAIN LIBRARY

THE GREAT BRITAIN LIBRARY

THE GREAT BRITAIN LIBRARY

	Page		Page		Page
Anaconda (Ctd.)		Ash Peak Exten., Ariz.	280, 553	Battlefield salvage	1128
—Dividends	459, 1005	Aspen Grove Amalgamated Mines, B. C.	807, 932	Bauxite—British Guiana	264
—Editorials	423	Assay Office, Vancouver	683	—Dalmatia	188
—Liberty loan work	709	Assays as comparison figures	982	Bawdwin, Burma	877
—New stack	*870	—Balance table	*777	Bayliss, R. T.	955
—Practical notes from reduction works	*134	Assays—Particle-size reduction	*1103	Bead Lake Gold-Copper, Wash.	1142
—Production 57, 149, 363, 548, 717, 767,	921, 1133	—Practice economies	584, 756	Bear Cat Mining Co.—vs. Grasselli Chem. Co.	110
—Rod and wire plant	77	—Tunsten, Calorimetric	794	Bear Lake, Mich.	281
—Signal system	*453	Assessment suspension bill	72	Bear Top, Ida.	598
—Various notes 68, 88, 144, 168, 428,	598, 631, 767, 893, 977, 1013, 1014,	Assessments, Minn.	426	Beard, J. W.	322
1015, *1035, 1100		Associated Goldfields, Ont.	44, 684	Beardslee, F. W.	931
Analyses of mine and car samples	*321	Association of Ariz. Mining Men	765	Beaumont, G. H.	508
Analysis of ferrozirconium and zirconium		Association of Chambers of Commerce, U. K.	292	Beaver Copper, Utah	44, 196
in steel	356	Association of Independent Operators, Minn.	280	Beaver, Ont.	468, 768
Anchor, Ida.	976	Association of Iron & Steel Electrical Engineers	471, 643	Becker Steel Co.	184
Anchorage, Alaska	738	—Annual meeting	465	Beckett, P. G.	764
Anderson, B. M., Jr. Price readjustment	1122	Association of Petroleum Producers, Mexico	1090	Beckman & Linden Engrg. Corporation,	221, *498
Anderson, C.	395	Association of 27th Engineers. See "Twenty-seventh."		Bedding bins, United Verde Exten.	*692
Anderson, C. N.	736	Athapuskow district	703	Beer, Sondheimer & Co.	181, 930
Anderson, J. C.	322	Atlanta, Nev.	44, 325, 1055	Belcher, Colo.	195
Anderson, J. J.	512	Atlantic & Western Oil, Calif.	154	Belcher, Utah	282
Anderson, Ore	240	Atoka, Okla.	512	Belgian Congo, Copper	308
Anderson vs. Federal Mining & Smelting	442	Atolia, Calif.	281	Bell and buzzer signals, Anaconda	*453
Anderson vs. Newport Mining	948	Atwater, M.	508	Bell, H. W.	152
Anglo-American Corp. of So. Afric.	821	Atwood, N. M.	154, 326, 728, 1056	Bell, J. W., death	40
Anglo-Saxon Smelting & Refin., Ariz.	1141	Aubel, V. W.	1052	Bellorophon, Utah	240, 971
Angus, D. H.	84	Auger machine	*985	Belleview, Nev.	43
Ankerite, Ont.	326, 428, 932	Aurora Consolidated, Nev.	372, 512	Bellevue, B. C.	1056
Annual chemical directory	*890	Aurora, Okla.	646, 808	Bells, Skidoo, Okla.	280
Anodes in electrolytic refining	*95	Aurora West, So. Africa	954	Belmont-Shawmutt, Calif.	427
Anthraxite labor problem solved	184	austin, E. G.	425	Belmont Surf Inlet, B. C. Earnings	44
Anthraxite miners' wages raised	785	Austin-Manhattan, Nev.	893	Belmont-Wagner, Colo.	511
Anthraxite prices raised	882	Austin, R. N.	1054	Belt cleaner	*134
Antimony—France, metallurgy	307	Australia—Bismuth	238	—Vanner	*713, 1039
—Ida.	644	—Coal. Steamshovel work	10	Belt-concentrators and wet concentration	11
Antimony-tin-lead alloy solution	794	—Copper	221	Belt feeder—Roaster charge	*824
Antimony—U. S. Imports and exports	542, 799, 839, 1046	Contracts	1046	—Bunker Hill	*437
—War uses	715	Imports and exports	718	Belt magnetic separator capacities	868
—Wash.	309	—Eucalyptus oil	349	—Power loss	345
Apex, Ont.	372	—Gold	77	Belt slip—Cork inserts	835
Apex-Standard, Utah 154, 326, 554, 598,	768, 893	—Nuggets	742	Bender, L. V.	144
Apron feeder, Variable-speed	*993	—Iron	704	Bendigo Amalgamated, N. S. W.	238, 239
Arboun copper mines	*1081	—Lead	1024	Benefits from coöperation of zinc mining	
Arc welding, metallic-electrode	*224	—Metal associations and small mines	704	and smelting interests	217
—Portable rheostat	*414	—Metal production	969	Bennett-Martin Asbestos Co., Quebec	727
Arentz, S. S.	388	—Metal shipments	969	Bennie, J. W.	193
Argall, G. O. Photo	*414	—Molybdenite	371	Benzol method water determination in oils	357
Argall, P.	361	—Molybdenum	238	Berdan amalgamation pan	*1075
—Photo	*414	—Nickel matte	883	Berg, O. J.	736
Argentina to build merchant fleet	361	—Silver	704	Berkeley, Ariz.	42, 597
Argentine Navigation Co.	361	—Subterranean noises	938	Berrien, C. L.	40
Argentine, Petroleum	573	—Taxation. See "Taxation."		—Photo	864
Argo Mining, Drainage Transp. & Tunnel,		—Tin	231, 1024	Berry, E. S. Photo	*540
Colo.	*67, 239	—Transport facilities	*1112	Best, E. J.	805
Argonaut Consol., Calif.	43, 597	—Tungsten	238	Better dies make better drill bits	*539
—Dividends	33, 636	—Zinc	238	Bevel pinion for furnace drive	*134
Argylla Mine, Australia	450	Survey first half 1918	704	Beware the metric propaganda. Editorial	1048
Arica, Chile, Tin smeltery	989	Austria—Metal conditions	1091	Bianco vs. Bingham mines	819
Arizona. See also "Jerome."		Automatic elevator-bucket discharge	*118	Bibliography of petroleum	*549
Arizona & Michigan, Ariz.—Valuation	664	Aviation problems	828	Big Bell, Ark.	141
Arizona-Binghamton, Ariz.	239, 807, 865	Avoidable damage not actionable	239	Big Bug, Ariz.	239, 766
—Valuation	665	Azurite, Ore	282	Big Dipper, Ont.	976
Arizona-Bisbee, Ariz.	931			Big Indian Copper, Utah	282
Arizona Bureau of Mines	41			Big Jim, Okla.	282, 728
Arizona Commercial, Ariz.	468, 1099			Big Joe, Ark.	239
—Dividends	229, 799			Big Ledge, Ark.	195
—Valuation	865			Big Pine, Nev.	88, 282, 372
Arizona—Copper	153, 237			Big Ten, Okla.	326
Field	*199			Big Toad, Colo.	511, 767
Arizona Copper Co.				Big V, Okla.	808
—Production 42, 149, 280, 363, 510, 548,	717, 766, 921, 1133			Bigot, A.	255
—Valuation	665			Billharz, O. M.	368
—vs. Gillespie	861			Binder, H. T., death	805
Arizona Corporation Commission	41			—Recovery of selenium and tellurium	443
Arizona Daisy, Ariz.	727			Bingham Metal & Tunnel	194
Arizona Enterprise, Ariz.	848			Bingham Mines, Utah, Dividends	229, 799
See also "Ray Hercules."				Bisbee, Ariz. Community life	*731
Arizona Hercules, Ariz.	371			Bisbee deportation suits. See "Arizona	
—Concrete water-seal shaft ring	*1120			Labor"	194
—Production	848			Bismarck, S. D.	932
Arizona—Labor	85, 324, 466			Bismuth—Australia	238
—Bisbee deportation suits	194, 1012			Bits, Drill. See "Drill-bits"	
Strike called	552			Bituminous requisitions cancelled	1042
—Law	892			Biver, M. Antimony in France	307
—Manganese	237			Black Bear, Colo.	371
Deposits	726			Black Diamond, Ariz.	195, 239
—Metals, 1917	274			Black Eagle, Okla.	893
—Mica	41			Black Giant, Ariz.	597, 766
—Mine valuation	664			Black Hawk, Okla.	428
Arizona Mossback, Ariz.	43, 931			—Production	57
Arizona, Nev.	976			Black Hills district, S. D. Gold output	286
Arizona Ray Copper, Ariz.	41			Black Jack, Utah	706
Arizona Smelting & Power, Ariz.	1141			Black, W. M.	32
Arizona State Bd. of Equalization, Report	664			Blackhawk, Colo.	776
Arizona Syndicate, Ariz.	645			Blackwell, F. E.	1097
Arizona United Mining, Ariz.	87, 510, 1099			Blair, C. S.	768
—Description of property	*705			Blake crusher	825
—Valuation	664			Blakeley, C.	1083
Arizona—Valuation of mines for taxation	53			Blakeney, A. K.	519
—Workmen's compensation	726, 892			Blast-furnaces. See "Furnaces"	
Arkansas Manganese field. See also "Bates-				Blasting frozen iron-ore pile within build-	
villes"				ing	83
Arkansas Mining, Ark.	87			Blasting—Lighting circuit use	*267
Arkansas—Zinc comparative data, Mo.,	302			—Negligence in	531
Armada Tungsten, Calif.	1099			—Practice	985
Armstrong, F. H.	891			—Shaft sinking, Seneca	*563
Armstrong, F. H.	950			Blaylock, S. G.	322
Armstrong mechanical shovel	*949			—Trail smeltery and the war	206
Arsenic, Portugal	*47			Blende—Merton visting furnace	*569
Arsenic, White, Rhodesia	1076			Block signal for adits	880
Arthur Iron Mining, Minn.	194			Blomfield, A. L. Roasting of sulphotel-	
Artificial graphite	706			luride ores	400
Asbestos Corporation, Canada	467, 727			Blowers, Bunker Hill	743
—Dividends	459, 1005			Blowoff failure and remedy	*358
—Heating plant use	147			Blue-Bonnet, Okla.	44
—South Africa	167			Blue Jay, Nev.	240
—U. S.	33			Blue Lead, S. D.	428, 598
Imports	345			Blue Monster, Ariz.	427
Ash Peak, Ariz.	553			Blue Pig, Ark.	727
				Blue Ridge, Ark.	195
				Blue Ridge mountains, Copper deposits	248
				Blue Ridge, Va.	248
				Bluebell, Ore.	282

Cuyuna-Mill Lacs, Ida. 716, 1100
 Cuyuna Range district, Minn. 467
 —Manganese reserves 716
 Cuyuna-Sultana, Ida. 1100
 Cyanidation. See also "Concentration,"
 "Flotation," etc.
 —Amalgamation as preliminary 531
 —Colorado practice 388
 —Concentration abolished for 610
 —Gold, electro 988
 —Lead acetate substitute 667
 —Roasting sulphotelluride ores 400
 —Silver, electro 988
 —West African data *54, *62, *63, 82
 —Zinc-box practice *1017
 Clean-up 834
 Cyanide—New contracts 1014
 Cyanide solutions—De-aerating 413
 Cyclopic, Ariz. 510

D

Daily production board 67
 Dake, C. L. 891
 Daily-Arizona Consol., Ariz. 468, 1099, 1013
 Dahl, S. K. 322
 Dallas-Miami, Okla. 88
 Dallas, Picher, Okla. 808
 Dalmatia, Bauxite 188
 Dalton oil feeder *1022
 Daly, Utah. Dividends 240, 468
 Dangers of paternalism in government 693
 Danke, Colo. 1014
 Danube, Minn. 598
 Darby Reduction, Nev. *813
 Darrow, W. E. 597
 Darton, N. H. 595
 Data on crushing and cyaniding, West Af-
 rica *54, *62, *63, 82
 Daue, E. O. 236
 —Photo 864
 Daveler, E. V. 764
 Davenport, L. D. Cutting timber posts *24
 Davey, H. C. 439
 David, L. C. 278, 1011
 Davidson, Ont. 44, 88, 428, 604, 684, 1056, 1100
 Davies, D. G. 617
 Davies, H. 324
 Davies, J. G. 326
 Davis-Daly Copper Co., Mont. 43, 428, 512, 932
 —Annual report 960
 —Dividends 33
 —Quarterly report 1126
 Davis, J. A. Carnotite mining 205
 Davis, N. B. Clay resources, Southern
 Saskatchewan *549
 Daylight saving 714, 757
 De-aerating cyanide solutions 413
 De Beers Consolidated Mines.
 —Annual report 493
 —Bonuses 805
 De Camp, W. V. 805
 DeLamer, J. R. Career and death *1037
 De Quille, D. 507
 De Wendel, Lorraine 149
 Dead River, Mich. Hydroelectric develop-
 ment *285
 Deadwood, Colo 767
 Deadwood Lead & Zinc, S. D. 512
 Deebrook Dredging M. L., Burma 922
 Deer Creek, Ida. 43
 Deerhorn, Colo. 684
 Deichen, W. A. 322
 Del Mar, A. 322
 —Grinding of ore in ball-mills L. *311, 451, 583, 672
 Editorial 319
 —Replacing Oliver-filter shaft 835
 Delfos, C. F. 777
 Delgado, J. F. & Co. 237
 Delkie Mining & Milling, B. C. 468
 Delta Consol., Calif. 728
 Delta Copper, B. C. 848
 Demand of the gold miners, Editorial 276
 Denison & Hanford, Ark. 893
 Denmark. To receive metals 633
 Denn-Arizona, Ariz. 195, 683, 766, 931
 Dennison—Barksdale, Ariz. 371
 Denny, G. A. 59
 Denver Rock Drill Manufacturing Co. *225, 716
 Depletion in iron mines 1115
 Deposits, Taxation 725
 Desch, C. H. *1086
 Desk, Shift bosses 1077
 Destruction of French coal mines 660
 Determination of nitrates in caliche *25
 Determination of tin in concentrates 964
 Determination of tin in wolfram ores 27
 Determination of Tungsten 714
 Detroit Edison Co. 485
 Deutsch Luxemburgisches Bergwerks
 Developing Dutch salt deposit 1038
 Development—Costs 1107
 Development of Brazilian iron-ore deposits
 and N. M. 385
 Development of domestic potash 313
 Development of ferromanganese industry 874
 Development of mining in Papua 480
 Development standardization 1106
 Development work—Proportion to produc-
 tion 495
 Devine, J. C. 152
 Dewatering thickeners in western practice *618
 Dewey, F. P. Assay practice economies 756
 Dewing, Mo. 427
 Diamond cutting for disabled men 951
 Diamond-drill outfit, Gasoline driven 343
 Diamond drilling in Cornwall 809
 Diamonds—So. Africa 990
 —U. S. imports 579
 Diampre, A. G. 193
 Dick, J. E. Whitepine section, Colo. *331
 Dickenson, E. H. 1097

Dickinson, S. E. 41
 Dickson, W. B. Financing the war 70
 Dieffenbach, E. E. 508
 Diehl, A. N. 891
 Dies, Better, Make better drill bits *539
 Diesel engine 1890
 Dietz, J. H. Amer. Zinc Prod. rolling mill *778
 Differential flotation, Lead-zinc 528
 —Wallace, Ida. *482
 Dig Gold Mining, Colo. 684
 Diller, J. S. Chromite 53
 Dimmick, R. L. 1011
 Disabled men—Diamond cutting for 951
 Disinfectant, Mine, Manufacture 786
 Distinction between extraction and recov-
 ery 740
 Dividends. See also names of companies
 33, 229, 459, 636, 799, 1005
 —Colorado mines 404
 Dividing De Wendel Steel works 149
 Diving apparatus in placer mining 195
 Dixie Girl, Ark. 554, 1141
 Dixon vs. Southern Pacific 573
 Dobbin, Australia 450
 Dogging the issue. Editorial 1008
 Doell, W. R. 152
 Dogr, K. R. 139
 Dog for lowering mine timbers *222
 Doherty, H. L. 714
 Dold, Colo. 195
 Dolly Varden, B. C. 894, 932
 Dome Lake, Ont. 44, 1056
 Dome Mines Co., Ltd. 88, 154, 428, 598, 646, 894, 1142
 —Annual report 269
 —Development and production proportion 495
 Domestic crucible graphite insufficient 360
 Domestic manganese development 760
 Dominion Kirkland, Ont. 768
 Dominion Reduction, Ont. 427, 768
 —Production 468, 976
 Donohoe Mines, B. C. 684
 Don't for pump runners 454
 Door air-controlling device *643
 —Airtight wooden *1028
 Dorr, J. V. N. 973
 —Photo *380
 Dorr thickeners. Photos *618
 Dorris, Okla. 372
 Dorsey, R. T. 41
 Dosenbach, B. H. 930
 —Death 1011
 Dougall, R., death 376
 Dougherty, W. J. Photo 571
 Douglas, J. Career *18
 —Memorial service 368, 458
 —Will 419, 928
 Douglas, J. S. 278, 610, 974
 Douglas, W. 806
 Douglass, G. M. Conveyor pulley guards 1092
 —Efficient guard rails *532
 —Safety appliances in smelters *495
 —Standard safety ladder for chimneys *105
 Douglass, Me. 496
 Dow, A. 714
 Dowdell, A. L. Editorial 643
 Dowling, D. B. 368
 Downings, E. 643
 Downs, W. F. 309
 Draft, Military 28
 —Calls suspended 885
 —Canadian miners exempted 146
 —Coal miners' exemption 71, 455
 —Colo. situation 552
 —Copper companies, Mich. 597
 —Editorial 461
 —Essen and non-essential employees 578
 —Industry and 455
 —Miners exemptions 545, 644, 683
 —Metals and coal industry 596
 —Mining industry, Utah 509
 —To protect industry 500
 Draftsmen, Government needs 320
 Dragon, Ariz. 195
 Dragon Consolidated, Utah 154, 326
 —Dividends 229, 799
 —Production 44
 Dragon Mountain, Ariz. 645
 Draining, Cementation in *986
 Drawing a tight key *358
 Drawing-off in caving stopes *901
 Drayer, C. E. 368
 Drift set, Reinforced *710
 Drifting. See "Drilling."
 Drill bits—Dies *539
 Drill, Diamond—Gasoline-driven outfit 343
 Drill header for shaft sinking *1130
 Drill outfit, Okla. *994
 Drill, Rock 1071
 —Efficiency tests of equipment *287
 Drill steel conservation 354
 —Punching machine *225, 537
 Drilling, Coal, Cornwall 869
 —Costs *287
 —Efficiency tests 520
 —Keystone records 857
 —Standard machine-drill rounds *378
 Drinker, H. S.—Photo *1022
 Drip oil feeder *991
 Driving transfer chutes 728
 Droege, Calif. 278, 643
 Drucker, A. E. 808
 Drum Lummon, B. C. *909
 Dry concentration plant, Ark. *950
 —Ideal 239
 Dry Mill, Ark. 891
 Du Bois, C. G. 1011
 Du Bois, H. W., death 368
 Du Faur, A. F., death 1039
 Du Pont de Nemours, E. I. 221, 536, 631, 1039
 —Care of explosives 66
 Dugby, G. D. 139
 Ducktown Sulphur, Copper & Iron Co. 568
 Dudley, B. 1097, 1011

Duluth-Miami, Okla. 44, 512
 Dummy mining lease fraud 981
 Dumpage, Hercules Mining 1053
 Duncan, L. Reverberatory fore-hearths *534
 Dundee-Arizona, Ariz. 727, 848, 1013, 1141
 Dunlap, Nev. 240
 Dunshee, B. H. 152, 368
 Duquesne Mining & Reduct., Ariz.
 —Valuation 665
 Durban Rood, Deep, So. Africa 854
 Dust abatement in mines 783, 963, 1084
 —Transvaal 249
 —Editorial 801
 Dust, Blast-furnace, Potash from 883
 Dust box, Bunker Hill *651
 Dust determination, Borax Consol. *583
 Dust, Flue—Cottrell precipitation process
 *120, *532, *771
 —Westinghouse Cottrell equipment 1030
 Dust, Mine—Effects of inhalation 475
 Dust—Mortality in dusty trades *550
 Dust prevention, Transvaal mines 249
 Dutch-Sweeney-App, Calif. 325, 468
 Dutch view of German potash 791
 Duty to replace mining machinery 701
 Dwight, A. S. 681, 974
 Dwight and Lloyd nodulizer 719
 —Sintering machines *649, *113
 —Roasting plant *116
 Dye, N. 368
 Dye, E. 368
 Dyer, J. L. 1097
 Dykeman, W. P. Recovery of gasoline from
 natural gas *549

E

Eagle & Blue Bell, Utah 512
 —Dividends 33, 636
 —Production 44
 Eagle, Colo. 195
 Eagle Gold & Cop., Ariz.
 —Valuation 665
 Eagle-Picher, Okla. 372
 Eagle-Shawmut, Calif. 43, 325
 Eakin, H. M. Cosna-Nowitna, Alaska *540
 Earle, R. B., death 891
 Earling, R. B. 1139
 Early Bird, Colo. 239
 Early Bird, Kan. 281
 East Broughton district, Quebec 467
 East Butte, Mont.
 —Production 88, 149, 363, 548, 717, 921, 1133
 East Caledonia, Ida. 281
 East Rand Prop., So. Africa 954
 Eastern Tale, Vt. 636
 Eavenson, H. N. Photo *380
 Eby Syndicate, Ont. 282
 Echo, S. D. 326
 Echo Silver-Lead, B. C. 808, 848
 Eckelmann, L. E. Solution of tin-anti-
 mony-lead alloys 794
 Eckman vs. Lehigh & W. B. Co. 861
 Economic future of North Chosen 960
 Economic situation. See "Reconstruction."
 Economic warfare. Editorial 762
 Economics of salt. Editorial 461
 Economies, War-time. Editorial 276
 Economy, Mont. 808
 Economy of cork inserts 835
 Eddy, L. H. Neill jig tests for tin dredg-
 ing 78
 —Yuba No. 17 dredge 299, *300, *301
 Edgar Zinc Co. 189
 —Glendale works *708
 Editorial staff, "Journal," in service *826
 Edmonds, H. R. 256, 278
 Edmondson, H. W. The 28th Engineers 571
 —Photo 571
 Edna May, Aus. 324
 Education, Secondary mining, Nev. 552
 Educational efforts, Need for, Editorial 761
 Edwards & Wright, Ont. 657
 Edwards, Ariz. 931
 Effect of war upon Tonopah mining *601
 —Editorial 639
 Effective method of securing lagging *881
 Effective tube-mill liners *867
 Effects of mine-dust inhalation 475
 Efficiency charts, So. Africa 58, 60
 Efficiency tests, Rock-drill equipment *287
 Efficient guard rails *495
 Egerton, Sir W. Bauxite, British Guiana 264
 Eight-hour day for U. S. Steel 633
 Eilers, K. Photo 154, 282, 1056
 El Bordo, Mexico *378
 El Dorado, N. M. 467
 El Oro, Calif. 554
 El Oro Mining & Railway, Annual meeting 645
 —Dividends 955
 El Paso, Colo. Dividends 799
 El Paso, N. M. 404
 Electric Furnace Construction Co. 646
 Electric power restrictions, Calif. 891
 Electric Point, Wash. 705
 —Dividends 326, 512
 Electric Railway Improvement Co. 636
 Electric shovels, Underground *225
 Electric smelting, California *1125
 —Colorado plants *498
 —Electric welding 782, 914
 Electrical ground connections 405
 Electro-cyanidation of gold and silver 790
 Electrochemistry and the war. Editorial 988
 Electrolytic copper refining—High ampere
 efficiency 721
 Electrolytic iron. See "Iron."
 Electrolytic refinery. See "Refinery."
 Electrolytic zinc. See "Zinc."
 Electrolytic Zinc Co., Ohio 643
 Electrolytic Zinc Co., Aus. 177
 Electrolytic zinc plant, U. S. Sm., Ref. &
 Min. 413
 Elevator-bucket discharge, Automatic 484
 Eleventh Engineers 802

Table with 4 main columns: Article Title, Page, Article Title, Page. Includes sections like 'Fuel Administration (Ctd.)', 'Gadsten, Ariz.', 'Gallac-Kusick group, Nev.', 'Garfield Smelting Co.', 'Gasoline locomotive', 'General Electric Co.', 'Germany-Alsace-Lorraine', 'Goldfield Consol. (Ctd.)', 'Goldfield Merger, Nev.', 'Goodale, S. L. Photo', 'Goodwill Copper, Calif.', 'Goodyear, W. L.', 'Gorman, T. G. death', 'Goss, C. P., Sr. death', 'Gothein, Herr. Steel for copper on German R.R.s.', 'Gould, H. W. Quicksilver duty', 'Government Areas, So. Africa', 'Government control', 'Grand Central, Utah', 'Grand Gulch Mining, Ariz.', 'Grand Island, Ariz.', 'Grandma Consolidated, Nev.', 'Granniss, Ariz.', 'Grapple-Alabama', 'Grates-Riddell-Dawson', 'Grate-type ball-mill', 'Graton, L. C.', 'Gray, J.', 'Grease amalgamation of gold', 'Great Australia Mine, Australia', 'Great Bend, Nev.', 'Great Boulder Prop. Co.', 'Great Britain, See "United Kingdom"', 'Great Eagle, N. M.', 'Great Ray, Ariz.', 'Great Western Consol., Nev.', 'Green Hill-Cleveland', 'Green King, N. M.', 'Green Meehan, Ont.', 'Green Monster, Ariz.', 'Green Monster, Nev.', 'Green Mountain, Ariz.', 'Green, R. B.', 'Green, R. F.', 'Green, R. M. death', 'Green River, Utah, manganese', 'Greene Cananea Copper Co.', 'Greenland, C. W.', 'Greenway, J. C.', 'Grenades', 'Griffin, F. W.', 'Griffiths, E.', 'Grinding of ore in ball-mills', 'Grinding Pan', 'Griscom-Russell Co.', 'Grizzlies from old rails', 'Grizzly feeders, Ross', 'Grizzly, Mine', 'Grossman, A.', 'Ground connections, Electrical', 'Grow, A. L. death', 'Growth of mining and metal industries of France', 'Grubb Mining, Ariz.', 'Guard rails, Efficient', 'Guess, H. A.', 'Gugenheim, M.', 'Gugenheim, S.', 'Guglielmini, L. Tungstic acid in wolframite', 'Guides, Shaft, Village Deep', 'Gulf Coast domes in relation to sulphur', 'Gulf Sulphur Co.', 'Gunnison County district, Colo.', 'Gunsight Gold & Tungsten, Ariz.', 'Guy, R.'

Wheeler, C. A. death.....	974
Wheeler, H. A.	551
—Hoisting record.....	903
—Uncertainties of geological evidence.....	878
Wheeler, R. Pure zinc dust for precipitation.....	22
When the boys come home. Editorial.....	1009
White, A. E.	459
White, A. G.	228, 1043
White arsenic, Rhodesia.....	1076
White, B., death.....	974
White Caps, Nev.	44, 88, 196, 282, 326, 372, 428, 554, 598, 646, 768
White, H. A. Grease amalgamation of gold. 904	
White Knob Copper, Calif.	459, 1005
White, O. V.	278
White Pine County, Nev. Manganese.....	308
White Pine Extension, Mich.	511
White Pine, Mich.	598
White Pine section, Tomichi, Colo.	767, 932
White Reserve, Ont.	282, 468, 512
Whitewater, B. C.	44
Whitman, A. R.	764
Whitman, L.	152
Whitney, G.	738
Whittome, A. C. Dust prevention in Transvaal mines.....	249
Why minerals float.....	1127
Wide Awake, Colo.	1014
Wigg, C.	485
Wiggin, A. E.	144
Wilcox, G. B.	725
Wilcox, Minn.	1100
Wilcox, W. G. Powdered coal as fuel.....	450
Wilkins, S. L.	466
Williams, C. H.	929
Williams, H. C. Freeing threads on valve stems.....	359
—Tube scraper.....	358
Williams, H. S., death.....	278
Williams, J. H.	595
Williams, S. J., photo.....	471
Williams, W. A. New converter, Granby.....	989
Williams, W. D.	508
Willis, C. F.	41
—Efficiency tests, rock-drill equipment.....	287
—Life of mining community.....	731
Willison, J. T. Wire cable fastening.....	267
Williston, S. W., death.....	465
Wilshire-Bishop Creek, Calif.	1054
Wilson, F. B. Hydraulic and placer mining.....	321
Wilson, E. H., death.....	1097
Wilson, G.	891
Wilson, L. A. Estimating zinc in zinc dust.....	334, 672
Wilson, Pres. Appeal to coal miners.....	314
—Liberty Loan letter.....	630
—President's messages. Editorial.....	751
—Recognition of engineers.....	1005
Wilson, R. H.	891
Wilson, W. B.	274
Winchell, H. V.	1052
Windsor Asbestos, Quebec.....	727
Winona, Mich.	154, 240, 281, 684, 848, 1014
Winslow, R.	44
Wire cable end fastenings to forged sockets.....	267
Wisconsin, Calif.	325
Wisconsin Zinc Co.	154, 894
Witherbee, Sherman & Co., N. Y.	486
Witkowski vs. Interstate Callahan.....	1114
Witwatersrand district. Cementation.....	996
Witwatersrand, So. Africa.....	954
Witwatersrand Deep, So. Africa.....	954
Wolcott, H. B.	681
Wolf, H. J. Mine sampling.....	671

Wolf, H. T. (Ctd.)	
—Mining in Telluride.....	*395
—Photo.....	*415
Wolfe County vs. Beckett.....	1115
Wolff, E. H.	230
—American sheet-zinc industry.....	304
Wolfe, C.	725, 836
Wolfram—Bohemia.....	856
—China, Swatow district.....	445
—Concentration.....	*530
—Determination of tin in.....	964
—Import duty.....	182
Wolfram Mining and Smelting.....	50
Wolfram—Portugal.....	314
Wolframite—Tungstic acid determination.....	585
Wolverine & Arizona, Ariz. Dividends.....	229, 799
Wolverine, Mich.	598, 808, 893
Women in chemical work.....	837
—Millworkers.....	1012
—Smelting industry.....	*136
Woodbridge, D. E. Ark. manganese field.....	669
Woodlawn, Utah.....	196
Woodson, W. H., death.....	805
Woodward Iron, Ala.	468
Woodworth, T. C.	465
Wool, Mineral.....	209
Woolfolk, W. G.	422
Work or fight. Editorial.....	365
Working costs, Rand.....	954
Workman, M.	84
Workmen's compensation, Ariz.	726, 892
World's Fair, Ariz.	281, 511, 766, 807
Would check fuel oil wastage.....	715
Would confiscate German profits.....	674
Would continue Federal supervision.....	920
Wrampelmeier, E. L. S.	681
Wrenn, A. A.	322
Wright-Hargraves, Ont.	154, 240, 598, 646, 894
Wright, M. H. Hydro-electric development, Dead River, Mich.	*285
Wright, W. H.	152
Wyercosin, Ark.	281
Wyoming—Manganese.....	799
—Platinum deposits.....	900
Wyoming platinum mine.....	900

X

X. Enticing labor from work.....	755
----------------------------------	-----

Y

Y. G. J. Vanner belt cleaner.....	1040
Yaba Copper, Ariz.	371
Yak, Colo.	404
Yampa, Utah.....	596
Yankee Boy, Ida.	1100
Yawkey, W. H.	238
Year's steel exports.....	226
Yeatman, P.	362, 838, 1052
Yellow Pine, Colo.	195
Yellow Pine, Nev.	33
Yellowhammer, Utah.....	372
Yellowstone, Mo.	43
Yerington Consolidated, Nev.	196
Yonge, A. M.	465
Young, A. H.	508
Young, E.	508
Young, G. J.	
—Capacity of belt magnetic separators.....	*868
—Coöperation among small mines.....	*811, 879, 1001
—Why minerals float.....	1127
Young, W. J., Jr.	1139
Your part.....	577

Yuba Manufacturing Co.	
—No. 17 dredge.....	299, *300, *301
—Editorial.....	320
Yucca Tungsten, Ariz.	468
—Valuation.....	865
Yukon Alaska Trust. Dividends.....	33, 636
Yukon—Gold.....	683
Yukon Gold.....	645
—Dividends.....	33, 504
Yukon, Placer mining in.....	1105
Yule marble.....	682

Z

Zeigler, C.	764
Zenda, Calif.	43
Zenobia, Colo.	684
Zimmerman, E. E.	33
Zinc and its uses.....	705
Zinc—Ark. Comparative data. Mo., Kan., Okla.	302
—Australia.....	238
—Survey first half 1918.....	704
—Benefits of coöperation of mining and smelting interests.....	217
Zinc-box clean-up.....	834
Zinc-box practical.....	*1017
Zinc—Colo.	382
—Smelting.....	389
Zinc Corporation, Ltd.—Aus.	452, 704
—Zinc dust analysis. Bibliography.....	145
—Dust estimating.....	*334, 672
—Electrolytic, U. S.	176
—Estimation in zinc dust.....	672
—Gt. Britain, sheet.....	665
Zinc Hill, Wis.	44, 646, 848
Zinc—Hydrometallurgy. Elimination of gelatinous silica.....	1116
Zinc in second quarter, 1918. Editorial.....	721
Zinc in the third quarter, 1918. Editorial.....	789
Zinc industry.....	*1066
Zinc—Joplin shut down.....	931
—Kan. Comparative data, Mo., Kan., Ark.	302
—Mo.	683
—Comparative data, Kan., Okla., Ark.	302
—New uses sought.....	920
—Oklahoma. Comparative data, Mo., Kan., Ark.	302
Zinc-ore treatment, Laist.....	*1118
Zinc oxide—Baghouses.....	*126
Zinc oxide manufacture, Monteponi.....	742
Zinc—Prices, Joplin.....	791
Zinc Producers and smelters conference.....	716
Zinc Producers' Committee—Joplin prices.....	791
Zinc—Pure dust for precipitation.....	22
—Rolling mill, Amer. Zinc Prod.	*778
—Cost.....	629
—Sheet, For roofing.....	*620
—Editorial.....	639
—Smelting, Coke-oven gas in.....	537
—Smelting works of Vado Ligure.....	*212
Zinc soldering acid.....	194
Zinc—Substitute for other metals.....	634
—U. S.	362
—Editorials.....	189, 721
—1917.....	177
—Producers ask protection.....	588
—Sheet-zinc industry.....	304
—Smelting capacity.....	679
—Imports and exports.....	72, 316, 542, 760, 839, 1046
Zirconium analysis in steel.....	358
Zirconium ores and alloys.....	793
Zirconium, Rocky Mountain section.....	806
Zuma, Utah.....	282, 768, 1056
Zuni, Okla.	512
Zwack, A.	1014