be conveyed ints a reservoir, and by a convenient opening in the reservoir, conducted to the top of an over-shot wheel.

The reservoir must be so constructed as to contain only a certain quantity of water, by means of chamels through which the redundant water may how off.

The great advantages of this arrangement are:

First....The machine need never be idle, proxided there be a sufficient quantity of wind to heep it in motion.

Second....A single cargo of water, consisting of twenty or thirty tons, is all that is necensary to supply the machinery, as the whole may be so constructed as that the water which flows over the wheel may be agrin conducted into the well intended for supplying the reservoir by means of the forcing pump.

Third....The variable velocity of the wind-mill cannot in any manner affect the equability of motion in the part of the machinery which is moved by the water, as that is always regulated by what are in themselves perfectly regular, viz. the weight of water in the reservoir (which is supposed to be at all times the same) and the impetus acquired by the water in falling through the passarge from the reservoir to the top of the wheel.

In hopes that this hint may be of serviee, I remain your sincere well-wisher,

MECHANICUS.
Ne:ury, July 13th, isos.
Postscript.....Since writing the above I have been given to understand, that the idea of using the power of the wind mediately has been proposed to the public lefore this. I do not regret being deprised of the pleasure of having conceived, what I thought, an original idea; should the hint be taken up and pursued by an indiviclual in the country, my princijal object will be sofur obtained.

To the Editor of the Belfust Magazine. SER,

FRANKLIN, in the energetic language of D'Alembert, sisnatched the thandir from the clouds." Perhaps the sentence mav be considered as an excelleut epitone of the philosophical character of that eminent genius. He
used his knoviledge of the arcana of nature, as a meats of depriving her of her destructive qualities, and extracting from her such practical rules as might advance human knowledge, or extend the limits of our comforts. This, indeed, is the true province of philosophical research, and I am positive, that he who enjoys the happy quality of making practical inferences from his knowledge, though of a limited kind, is much more servicenble, in a certain degree, to society, than he who is for ever suaring in the high and rarefied atinosphere of pure theory. I am much gratified therefore, in finding from your prospectus that you set a proper value on the usen ful part of philosophy; allow me to contribute my mite towards this department of your periodical work.

It has been demonstrated by Sir Isaac Newton, that the solid, which offers the least resistance in moving through an elastic medium, must partake somewhat of the shape of the cone, curved slightly in its outline. May not this be applied to the correction of the errors of the pendulum? It is pretty well ascertained that much of its incorrectuess arises from the different degrees of elasticity, in the medium through which it moves; if then we substitute the solid of the lechat resistance, in place of the weight usually attached to the rod of the pendulum, it is but reasonable to conclude that much of the irreqularity complained of will be done away. If we make the resistance which the penidulum offers to the atmosphere the lecust possible, the inegularities arising from this resistance, and the consequent re-action of the air, must also be the lerast possible*,

* The consideration of the irregularity of the perdulnin, which proceeded from the different densities of the atmonphere put me on devising stme mode of remosing this seriuns detect. Perhaps enclosing the whole apparatus of the rlock in an iron cyliader, air-tirgt, and then exhanstinu the eylinder of air, mirht be attended with sume adrantage in this re. spect; besides, that a clock prot+cted thus from the atmonphere will never require cleaning, and the oil can never dridute the metal. But this plan, it must. be remarket, couk not he adtasted in

I shall be happy to find, through the medium of your Magazine, that this hint has been followed up, by some actual experiments on the subject, as I know there are many persons in'your town fully quaitited, th every respect, for the employment, and I need not say how anxious I shall be for some account of a series of well conducted exprriments on a matter of so much importance.
I amsir, your sincere well-wisher, \&c. MECHANICU:。
Newry, Sept. 8th, 1808.
ESSAY ON IRISH bULLS.


JUSTIN also, in describing the warlike character of the Amazons, has the following passage, conveying a statement not altogether unlike the idea of Fielding, "Neque otio, neque lanificio, sed armis, equis, venationibus exerctban," in English, "i hey exercised bemselves neither in idfeness nor in spinning wool, but in arms, horsemanship and hunting."

The jokes of Hierocies have been a fruitful source of Hibernian bhanders, (I speak as an Enghsiman.) it is needFess to insert them here, as : believe they are to be found translated in the fourth Edition of Edgeworth's Essay on Irish buils*.
house clocks, and perbaps astronomers wonld find it equally objectionable, as ithe hat of the pendulum could not be heard in vacuo. Perhsps the following misht be applied with better effect in every respect; exhansting the cylinder intended to contain the clock-work, tilling it with carbonic acid cas, in lieu of atmospheric air, and then making it air-tight, the superior density of the former, will increase the sound of the pendulura, the oxidification of the metal is avoided, as in the catse of the varumm, and perhaps, :too, the dilatation and contraction of pendulum and work may be in a great measure done away, by means of the mediun in which they are contained.

* Sir Jobn Carr, in his Tour through Irtiand, mentions that a certain Agricultural Society in England having heard much in praise of the said Essay on Irish Bulis, instantly commissioned their Secre. tary to procure twelve copies of the Essay, in order to examine its contents, and to asrertain whether it might not contain some hints towards the improvement of the norned cattle in England!!!

Shakespear says, "Cæsar never did wrong but in just causc." I cannot lind that this species of bull has ever been attributed to an Irishman: perhaps there are some bulls, which like certain rights, are unalienable, and cannot be wrested from those who hold high employments in the manor of Parnassu,*.
should poor Paddy dare to talk of a hirrse-race between two asses, we should see it immediately in tatics in every british news-paper, from the mouth of the lly to the Tweed. But let the divine Homer introduce his goddess of wisciom exhorting Pandarus $\dagger$ to promise an hecutomb (i., an offering consisting of an hundred oxen) of white lambs to Apoilo; could Minerva be, with poetical propriety accused of making a liull? Oh, ne upon it!!

A worthy friar of the franciscan order, mentions a crrcumstance in support of the credit of his favourite samt, which must be believed guia imjossibile. It is that on a tine St. Francis was by some hazard thrown ashore on a desolate island, and in the short space of halt an hour he converted ten thousand of the inhabitants!!! This too remuins to be attributed to an Hibernian.

One of Dryden's plays was damned by the severity of the Duke of Buckingham's witticism upon the following line,
"My wound is great, it is so very small." To which the Duke wittily subjoined,
"Then 'twould be greater were it none at all."
This I consider one of the happiest instances of the argumentum ad ubsurdum on record. The genius of the Duke enabled him to see Dryden's butl intuitively, and his ability instantly provided him with a very natural deduction, which placed the absurdity in the most palpable light.

Sir John Perrot, in his account of the State of Ireland during the reign of Elizabeth, observes, "that more Eng* lishmen were born in Wexford than in

[^0]
[^0]:    * This Bull from Shakespear is given on the authority of Ben Joh: son. It is but justice to add that Rowe affrms, he has never met with the above line in any copy of Shakespear.
    $\dagger$ See lliad, Book iv. Verse 102.

