## PRIZE ESSAY.

Essay on the Patent Laws, with sugerstions of alterations an

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Engineer, Washington, D. C.

## (Concluded.)

Lastly-I propose that the 12th section of Act 1836, shall be so amended as to require a person to make oath to his Caveat, for an alleged invention or discovery, and in default of so doing, to be deprived of all benefit of exa mination of the same, when an application for a patent for an invention or discovery, on an analagous subject is under adjudication before the Examining Board. This amendment would not be objectionable to persons having really made an invention or discove ry, and would in a great degree, prevent mis chievous and dishonest persons from entering Caveats for machines, or other articles, containing the essential features of pending applications for patents, for similar machines or other articles to which they have no rightful claim ; merely for the purpose of delaying the issue of the patents to the real inventors, to the extentof the period allowed a caveator o convert his caveat into an application for a patent, in cases of interference, in order tha they may use such machines or other articles, to the fullest extent with impunity, and finally, decline complying with the oath prescribed for an application. Whereas, if this requirement were exacted in the first instance, of all persons entering caveats, few, other than those believing themsel ves to be the original inventors of an aricle, would be willing to subject themselves to the charge and penalty of perjury, involved in making a false oath and thus much delay might, in many cases, be avoided.
In the foregoing suggestions, I have merely given an outline of the alterations proposed to the present Patent Laws, without giving in detail, the advantages likely to accrue from their adoption. These I think will be apparent to those of my readers acquainted with the subject, and will to some extent, remove the evils under which the poor inventor is now laboring. If the proposed alterations should be engrafted in proper form into the present code of laws, and should in their ope ration produce beneficial results, toward improvements in the various elements of the arts, and tend to remove the obstacles in the way of inventors to a just and fair reward of their genius and toil, then, the main object of my design will have been accomplished. But if otherwise, I shall have at least the proud conciousness of knowing, that in making the attempt, I have performed adutytowardaharshly dealt with class of meritorious and useful citizens, who will fully appreciate my labors and motives, and in so doing, have in a manner, acknowledged my obligation to them for the many benefits developed by their genius with which I , in common with the rest of mankind, have been favored.
Let us in conclusion glance at the spirit of improvement and invention exhibited in our countrymen and indulge in a few suggestive eflections
The progress of science and mechanical developement in our country for the last fifty years, has been rapid. Improvements and inventions have not, it is true, sprung up at once into luxuriant matarity, but slowly, surely, like the acorn to a tree, and the rivu let to a river, they have gone on enlarging widening, expanding into beauty and magnificence, until their tremendous influence is now recognised, not only fertilizing and sheltering the land which gave them birth, but penetiating into the remotest corner of the habitable earth.
The nineteenth century stands out in basso relievo upon the rock of Time, as the epoch of discovery and fruition-as the inceptive period of mighty truths, such as the world knew not before, and which in their culminating progress, are destined to embrace the universal family of humanity in the circle of their immense results. The key with which ur immortal Franklir unlocked the mysteries of the storm, was also the talisman which may in aftertimes reveal the secret machinery
of life itself. Already have the "sightless
couriers of the air" woven their web of lightcouriers of the air" woven their web of light-
ning over the face of creation, realizing, aye and surpassing the ambition of him, who would have "put a girdle round the earth in forty minutes." Already have the mountain bowed, and the " little hills skipped like lambs" before the track of the iron horse, whose limbs are tireless, and whose breath fails not in the race
The popular mind of our country is essen ially inventive. Almost as soon as the American child can think, be enquires-demands illustrations, and suggests changes. The Anlo Saxon superiority of intellect requires in dependent and individual developement,which, under a republican form of government is almost certainly obtained; for each man born into the community, feels, that in himself lies his destıny, and that equally with another he may aspire to all the rewards of enterprise. The North American mind seldom dreams-seldom indulges in vague or chimerical speculations; it must have a tansible foothold, a solid standing point, and thence it will upbuild the loftiest structures, that intellect can conceive or action execute. It never stagnates, and seldom is at rest ; for in viewing a mountain torrent, the American plans a water power that shall pertorm the workof a thousand men, and in examining a pebble he may divine the locality of untold reasures hid in the bowels of the earth.
It is this national trait of observation and application, that gives our countrymen a peculiar proclivity, if I may use the term, towards invention and improvement. Nothing is passed by them without enquiry and examination ; and errors are detected, mistakesrectified, and crude hints reduced to practice, with a facility that is truly wonderful.Throughout all classes this trait is noticeable its developement, perhaps but partial and incomplete, yet still marked and recognizable, as a feature of our national physiognomy.
It is this which sweeps away every vestige of the ruined past, and replaces it with solid monuments of the present. It is this which diverts our rivers, hundreds of miles from their natural courses, to top the resources of inland commerce. It is this which crosses and recrosses our fertile plains with a woof of perpetualtraffic, over which fly continually those mighty shuttles, the steam engines, weaving yet closer and denser, the fabric of our prosperity. It is this which builds ships in the backwoods, launches themupon canals and inland lakes, or transports them piecemeal to the mighty ocean-to assume their place among the navies of the world. It is this which paints our glowing scenery on miles of canvass, revealing our natural and national life to millions beyond the Atlantic, who thus behold, as it were, face to face, a people who exist four thousand miles away. Our flails thresh the corn which grows around the tomb of Pharaoh; our saws sever the ce dars of Lebanon; our steam whistle startles the echoes of the Black Forest and the Bal tic ; our cotton forms the Moslem's turban our palm leaf shelters the Sumatra planter.We cool the nabobs sherbet with our icesand we heat the Creole's sugar boiler with our coals.

No nation in the history of the world has illustrated the spirit of improvement to the xtent of ours ; and this, because every man has been a self acting motive power in the grand machinery of progression. We exhibit the ideality of materialism in every thinggrounding on the smallest foundation, a superstructure of practicable theory. A churn, a lock, a door knob, a plough, these are not objects merely, to a Yankee's mind, but are problems, which he endeavors at once to resolve into an " improved" churn or lock, or door knob, or plough. And the problem pre sents itself, and must b
With this universal genius, then, for in ention, the American mind requires but tw things to make its influence effective, and con stant in its great results; and these are educa tion, and governmental protection in its offspring. Our rambling, luxuriant, eccentric inventive talent, must be controlled and direc ted by a wise system of scientific instruction as well as protected by law in its results.

A Bureau of Arts, supervised by practical this paper, it is sharp-set, as well as clean-set men, should be as distinct a department of thus contriving a double debt to pay.
our national government as that of the Trea- There are many who know how to shave sury, or of State. It should ever be the poli- with paper a little better than Mr. Frederic cy of a far-seeing statesman to encourage Barker of Dorcas Terrace, Hammersmith.

## hITERARY NOTICES.

The Pictorial National Library. Wm. Sim onds, Boston. G. W. Adriance, 177 Bow ery, N. Y.
We have always warmly recommended this useful publication for its intrinsic merits a May number is before us, splendidly illustra ted with a portrait of John C. Calhoun, and biography ; "View of the State Reform Schoo at Westboro, Mass.;" Portraits of John Lang don and Edmund Burke, with many other il ustrated scenes. 12 numbers of this work cost only $\$ 2$, and when 600 pages. Any person wish ing the 12 numbers in our possession can have hem for $\$ 5$, but the publisher will supply them for $\$ 2$. We don't wish tc sell.

## Agricuitural Document.

We have received from the Editor of that ecellent periodical, the Ohio Cultivator, the "Third Annual Report of the Board of Agri culture of the State of Ohio, 1849." We are much obliged to our respected brother in the field of useful information, for this document $s$ it is one of no ordinary value, and 1 s highly
creditable to the first Agricultural State in the Union.

The Water Cure Manual, is the title of very excellent publication just issued by Messrs. Fowlers \& Wells, 131 Nassau st. I embraces description of the various modes of xercise, clothing, occupation, diet, water, drinking, \&c. together with descriptions ot disease and the hydropathic means to be employed therein. The subject is treated in Dr hew's usual able manner, and should mee with an extensive sale. Price 50 cents, with 80 pages
The American Railroad Journal has wonderfully improved lately. It is an excellent paper and we see that Mr. J. T. Hodge, an minent mineralogist, is now associated with Mr. Poor, as Editor

We return our thanks to Richard M. Young Commissioner of the General Land Office, for his able and useful Report for 1848

The Phrenological Journal for May is an xcellent number, published by Fowlers \& Wells, N. Y. It contains a likeness and phreBeecher, the popular preacher


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## ANICAL ENGRAVINGS:

the magazines and papers which differs entirely from the magazines and papers which flood tee country,
as it is a Weekly Journal of Art, Science and as hanics, having for its object the advance and Me.
ant one of
INTERESTS OF MECHANICS, MANUFAC nat tic beam by flattening its sides; of what di mensions shall we make it to gain the great est stiffiness and also the greatest strength ?
3. Suppose an observer to be elevated tw miles from the earth; what part of its sur ace would be visible to him ?
4. There are two certain bedies, in which although containing the same elemfents in th same proportions, and presenting the very same crystalline form, the relative order of the elements is not the same. Required thei names?

## Razor Paper.

This a subject not intended for our Turks, or Long Beards, as these gentlemen prefer to ive and trim their beards after their own fierce looking fashion. But for genllemen who choose to keep a decent yankeechin like ourselves, we have just lighted on the following paragraph in a London Paper.
Mr. Frederic Barker of Dorcas Terrace Hammersmith has put forth a new kind of razor paper, which is introduced for wiping the razor while shaving, the finest edge that can be prodnced by any other means is greatly improved and constantly preserved in the mos perfect order, without the loss of time, labor and uncertainty attending the use of the hone and strop. By wiping the operative razor o


foURTH YEAR OF THE he same, a beam will be stronger in propor ion as the depth is greater; but there is certain proportion between the depth and the would, which, if it be exceeded, the beam wise. To ind breadth of a beam 20 feet long and 9 inches breadth
2. There is a cylindric tree one foot in dia eter, which is to be formed into a prisma
lust nea

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