PRIZE ESSAY.

Essay on the Patent Laws,

WITH SUGGESTIONS OF ALTERATIONS AND ADDITIONS FOR THEIR IMPROVEMENT

By Edmund Maker, Civil and Mechanical 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 examination 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 discovery, and would in a great degree, prevent mischievous 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 to convert his caveat into an application for a patent, in cases of interference, in order that 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 diverts our rivers, hundreds of miles from 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 of perpetual traffic, over which fly continupresent code of laws, and should in their ope- ally those mighty shuttles, the steam engines, ration produce beneficial results, toward im- weaving yet closer and denser, the fabric of provements in the various elements of the arts, our prosperity. It is this which builds ships and tend to remove the obstacles in the way in the backwoods, launches themupon canals of inventors to a just and fair reward of their and inland lakes, or transports them piecegenius and toil, then, the main object of my meal to the mighty ocean-to assume their design will have been accomplished. But if place among the navies of the world. It is otherwise, I shall have at least the proud con- this which paints our glowing scenery on sciousness of knowing, that in making the at- miles of canvass, revealing our natural and tempt, I have performed aduty toward a harsh- national life to millions beyond the Atlantic, ly dealt with class of meritorious and useful who thus behold, as it were, face to face, a citizens, who will fully appreciate my labors and motives, and in so doing, have in a manner, acknowledged my obligation to them for the tomb of Pharaoh; our saws sever the cethe many benefits developed by their genius dars of Lebanon; our steam whistle startles with which I, in common with the rest of the echoes of the Black Forest and the Balmankind, have been favored.

improvement and invention exhibited in our countrymen and indulge in a few suggestive reflections.

The progress of science and mechanical developement in our country for the last fifty years, has been rapid. Improvements and extent of ours; and this, because every man same proportions, and presenting the very inventions have not, it is true, sprung up at has been a self acting motive power in the once into luxuriant maturity, but slowly, grand machinery of progression. We exhibit the elements is not the same. Required their surely, like the acorn to a tree, and the rivu- the ideality of materialism in every thinglet to a river, they have gone on enlarging, grounding on the smallest foundation, a suwidening, expanding into beauty and magni- | perstructure of practicable theory. A churn, ficence, until their tremendous influence is a lock, a door knob, a plough, these are not now recognised, not only fertilizing and sheltering the land which gave them birth, but problems, which he endeavors at once to re- live and trim their beards after their own penetrating into the remotest corner of the solve into an "improved" churn or lock, or fierce looking fashion. But for gentlemen habitable earth.

The nineteenth century stands out in basso relieve 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 | spring. Our rambling, luxuriant, eccentric our immortal Franklin unlocked the myste- inventive talent, must be controlled and direcries of the storm, was also the talisman which | ted by a wise system of scientific instruction, may in aftertimes reveal the secret machinery | as well as protected by law in its results.

of life itself. Already have the "sightless ning over the face of creation, realizing, ave our national government as that of the Treaforty minutes." Already have the mountains these manifestions of popular intellect which bowed, and the "little hills skipped like result in practical fruits, which exhibit new lambs" before the track of the iron horse, modes and means of producing tangible good, fails not in the race.

The popular mind of our country is essentially inventive. Almost as soon as the American child can think, he enquires-demands illustrations, and suggests changes. The Anglo Saxon superiority of intellect requires independent and individual developement,which, under a republican form of government is almost certainly obtained; for each the children of the people might be instrucman born into the community, feels, that in ted in all the greattruths which form the eduhimself lies his destiny, and that equally with cated workingman; where the cumbrous deanother he may aspire to all the rewards of tails of patenteeism should be reduced to a enterprise. The North American mind sel- simple codification; where premiums and dom dreams-seldom indulges in vague or honorable prizes should be awarded to succhimerical speculations; it must have a tan-cessful inventors, discoveries, or improvers; gible foothold, a solid standing point, and where lectures upon all the branches of art thence it will upbuild the loftiest structures, should be given by the great scientific men that intellect can conceive or action execute. of our country; where a gallery of models field of useful information, for this document, It never stagnates, and saldom is at rest; for and catalogues of all the inventions and dis- a sit is one of no ordinary value, and is highly in viewing a mountain torrent, the American plans a water power that shall perform the be accessible to all; such an Institute as this work of a thousand men, and in examining a would do more to elevate our national chapebble he may divine the locality of untold racter, and ennoble our countrymen, than all treasures 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 that adorns and benefits mankind. He could is passed by them without enquiry and examinold up to the gaze of nations a model and a ination; and errors are detected, mistakes rectified, 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 their natural courses, to top the resources of inland commerce. It is this which crosses address to him the apostrophe of the Poetand recrosses our fertile plains with a woof people who exist four thousand miles away.— Our flails thresh the corn which grows around tic; our cotton forms the Moslem's turban; Let us in conclusion glance at the spirit of] 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 objects merely, to a Yankee's mind, but are door knob, or plough. And the problem pre- who choose to keep a decent vankee chin like sents itself, and must be solved throughout all ourselves, we have just lighted on the followthe handiwork of man

With this universal genius, then, for inthings to make its influence effective, and constant in its great results; and these are education, and governmental protection in its off-

A Bureau of Arts, supervised by practical this paper, it is sharp-set, as well as clean-set; couriers of the air" woven their web of light- men, should be as distinct a department of thus contriving a double debt to pay. would have "put a girdle round the earth in) cy of a far-seeing statesman to encourage whose limbs are tireless, and whose breath whether it be in the perfection of mechanics, agriculture, or the fine arts : for all these things directly advance a nation, and of course create wealth, prosperity, and social honor for all the integrals of that nation.

The institution of a National Academy under the patronage of government, where mechanics, manufactures, and agriculture, should have their appropriate Professorships; where coveries of ancient and modern times should the victories of a thousand wars, or the acquisition of all the mines of the universe.

With such a fostering Institution, the American mechanic could lead the world, in all standard of scientific developement, that would fire all men with emulation. Then could he grasp and guide the awful elements of nature. curb the ocean and the sky, and overcome the forces of evil throughout creation. Then could he banish miasma from the face of earth, disarm pestilence, avert famine, regulate climates, and make deserts "blossom as the rose." This power exerted for the good of mankind, and encouraged to its utmost capacity, would be equal to all labors, and superior to all obstacles. Then indeed could we

"Lift, then, thy hand to heaven! Spread thy Toil-sceptre o'er the sea and land Thou hast the world entrusted to thy hand-Earth to thy charge is given ?"

Useful Problems.

PROBLEM 1. The quantity of timber being the same, a beam will be stronger in proportion as the depth is greater; but there is a certain proportion between the depth and the breadth, which, if it be exceeded, the beam would be liable to overturn and break sidewise. To avoid this, what should be the least breadth of a beam 20 feet long and 9 inches deep ?

2. There is a cylindric tree one foot in diameter, which is to be formed into a prismatic beam by flattening its sides; of what dimensions shall we make it to gain the greatest stiffness and also the greatest strength?

3. Suppose an observer to be elevated two miles from the earth; what part of its surface would be visible to him?

4. There are two certain bedies, in which, although containing the same elements in the same crystalline form, the relative order of

Razor Paper.

This a subject not intended for our Turks, as these gentleme ing paragraph in a London Paper.

Mr. Frederic Barker of Dorcas Terrace, vention, the American mind requires but two | 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 produced by any other means is greatly improved and constantly preserved in the most perfect order, without the loss of time, labor and uncertainty attending the use of the hone and strop. By wiping the operative razor o

There are many who know how to shave and surpassing the ambition of him, who sury, or of State. It should ever be the poli- with paper a little better than Mr. Frederic Barker of Dorcas Terrace, Hammersmith.

LITERARY NOTICES.

The Pictorial National Library. Wm. Simonds, Boston. G. W. Adriance, 177 Bow-

We have always warmly recommended this beautiful Magazine for its intrinsic merits as a useful publication for family reading May number is before us, splendidly illustrated with a portrait of John C. Calhoun, and biography; "View of the State Reform School at Westboro, Mass;" Portraits of John Langdon and Edmund Burke, with many other illustrated scenes. 12 numbers of this work cost only \$2, and when bound, will make a book of nearly 600 pages. Any person wishing the 12 numbers in our possession can have them for \$5, but the publisher will supply them for \$2. We don't wish to sell.

Agricultural Document.

We have received from the Editor of that excellent 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 creditable to the first Agricultural State in the Union.

The Water Cure Manual, is the title of a very excellent publication just issued by Messrs. Fowlers & Wells, 131 Nassau st. It embraces description of the various modes of bathing, the hygienic and curative effects of air. exercise, clothing, occupation, diet, water, drinking, &c. together with descriptions of disease and the hydropathic means to be em-ployed therein. The subject is treated in Dr. Shew's usual able manner, and should meet with an extensive sale. Price 50 cents, with 280 pages.

The American Railroad Journal has wonderfully improved lately. It is an excellent paper and we see that Mr. J. T. Hodge, an eminent 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 excellent number, published by Fowlers & Wells, N. Y. It contains a likeness and phrenological dissertation on the Rev. Henry W. Beecher, the popular preacher.



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