Scientific American.

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Patent Plotters and Congress.

The granting of special privileges by legislation against well established principles of public policy, is deeply injurious to the interests of any country, but more especially a republic. The legislation of a republic is broad and open, and in this age of light and reason, nothing can be hid from public scrutiny. Monopolies are opposed to the spirit of free institutions, consequently every monopoly grant, no matter upon what pretence, unless it can be shown that it is for the public good, or as an act of justice, is sure, sooner or later, to work mischief, and redound upon the heads of those who unwisely forget their duties and obligations to their country and constituents. At the present moment there is imminent danger of our Congress being influenced by a powerful combination of individuals, who, under the pretence of justice to inventors, are endeavoring to obtain special grants for the extension of certain patents, in violation of existing statutes.

The patent law provides for extending a patent for seven years beyond the period of its original term of fourteen years, in every case where the inventor has not been sufficiently remunerated. All applications for such extensions are made to the Commissioner of Patents, accompanied by certified documents, showing the profits and the losses of the patentee. In every case, when it appears to the Commissioner that an inventor has not been fully remunerated for his invention during its first term, a renewal for seven years longer is granted, but if the evidence presented shows that the inventor has received sufficient compensation, the Commissioner cannot grant the renewal without violating the provisions of the Patent Law. Guided by this principle of law, Commissioner Mason refused to extend the patent of Col. Colt, and his decision in this case (which we publish on another page) is a document characterized by sound reasoning and upright feeling. This decision, substantiated by such incontrovertible arguments, every candid person will think, should have arrested any further attempts to obtain an extension of this patent; butsuch is not the case. The owners of this patent, and also the owners of two or three others, who, for the same reasons, could not obtain an extension of them by the plain path of established law,-we are credibly informed, are now besieging Congress for special grants, and it is seriously apprehended that they will accomplish their desires. Money is lavished freely in every way to exercise an influence in favor of the applicants, and as they are abundantly able to expend enormous sums in forwarding their designs, it is not unlikely that they may be ultimately successful. There never wa a time since the first American Congress assembled, when such combinations and influences were brought to bear upon Congress for granting the extension of so many patents by special laws.

ually advancing the arts, and extending the dory prospect of the palm oil trade being as clearmade for the renewal of seven or eightpatents which flows into it in a given time. minion of man, for useful purposes, over the -such as Colt's (last) for revolving fire-arms: ly destroyed as is the whaling trade of England Fresh Isabella Grapes in January. rocks, as well as the waters. We now cook the india rubber patent of Hayward; Hoe's -which was once very extensive, but is now We are indebted to Geo. Clapp, Esq., of Auour food, we heat our houses, and we obtain Printing Press; McCormick's Reaper, and othreduced, we believe, to four or five ships. In our light from minerals, long hid in the bosom burn, N. Y., for a box of delicious Isabella Scotland the "Edinburgh Witness" states that ers. None of these patents can be extended of the earth, and once supposed to be as useless grapes, raised from his grapery last season, and by the plain path of existing law, and the exthere is a quarry about twelve miles to the west as the black mica formations of New York, which preserved in cotton up to this time. The speof Edinburgh, in the immediate neighborhood tension of the two former has been denied by are employed for no useful purpose whatever. cimens sent us were as fresh and retained their respective Commissioners of Patents, after of a picturesque group of trap-rocks, known as flavor as perfectly as though just plucked from candid examinations of sub oful and he Binny Crags, which quarry itself is of white The Prizes Again. the vine. It may interest some of our readers testimony. It looks more than impudent for sandstone, but there rests immediately above If we had delayed until the 3rd day of Janto know the process by which they were prethese parties to seek to gain by special legislauary before awarding the Prizes for the largest it a thick bed of dark-colored shale, over which served, which was simply by placing the clustion that which they could not obtain in the the hot trap must of old have flowed, and which lists of subscribers, some of the successful comters between layers of cotton, in a box, until it petitors would "have been doomed to disappointmanner provided by common statute. Will was subjected in consequence, to a sort of nawas full, and then covering it, to exclude the Congress violate the established principles of tural distillation. The distilled substance, shut ment. We, however, complied strictly with air as much as possible. public policy, and grant the extension of these very closely up, found its way into the vertical the proposition advanced at the beginning, and Patent Extension-New Rule. crevices of the bed of a white stone beneath, patents? It surely cannot be possible. If these closed the lists on Saturday the 31st ultimo. patents are extended, a stain will be made on and in these crevices the quarriers now find it. In all cases of application for the extension Owing to the detention of the mails by the heathe character of our present Congress which It exists as a light waxy matter, varying in covy snows, our letters were delayed several days of a patent, the applicant must file his statecan never be effaced. Let our Senators and lor in the mass from that of gamboge to that -for example, a letter mailed at Fitchburg, ment of the ascertained value of his invention, Representatives look well to this matter before of dark amber. melts at nearly the same tempe-Mass., Dec. 29th, did not reach us until the 3rd and of his receipts and expenditures, as required they vote for the extension of these patents. rature as bees' wax, which it equals in hardness, inst .- we should have had it the next morning by law, within thirty daysafter the date of the We have no doubt but there may be some and burns with a bright flame. Many years after mailing. The result is, that one of the first publication of the notice of such applicadeserving cases-some inventors to whom Conago the quarriers employed at the work, struck | competitors increased his list sufficiently to have | tion. C. MASON, Commissioner. gress, in justice, may grant, with the approba- \mathbb{S} by its peculiar qualities, learned to convert it entitled him to the fifth prize, instead of the Patent Office, 30th Dec., 1853.

inventors and those of the people, and these are not incompatible with one another. We in their cottages. only oppose all monopolies when we know they are sought to be obtained for other purposes than a fair remuneration to inventors.

Interested parties in the Woodworth Patent, we have been informed, are working at Washing upon a system for which they have always been distinguished, namely-great craftiness and deep subtility. Fearing that it would be in vain to apply again for an extension of the Woodworth patent, they have arranged matters in such a manner as to seek to obtain the extension of the old Emmons' Patent, so as to use it for their own benefit and secure all the privileges they enjoy under the Woodworth patent. The patent of Emmons was for the very same invention as that of Woodworth, and the interested parties of the Woodworth patent have heretofore accused Emmons of falsifying himself, and have even resorted to employing his dying confession-as they say-to subserve their purposes. Now Emmons, by the same parties, is to be represented as an injured man, an ill-used benefactor to his country, and the extension of his patent is sought for ostensibly [as an act of justice to his relatives, but really to be used for the advantage of those who were his calumniators and detractors. We are loth to believe that this scheme, deep and cunning as it is, can be successful with Congress.

It is calculated that patent rights to the value of \$20,000,000 are sought to be extended by the present Congress, and all those interestad in these cases, support and encourage one another with a power and influence never before exerted in Washington. They may be successful in their designs, as they will leave no effort untried to accomplish their objects. The credit of rejecting, or the dishonorof granting such special privileges will belong to Congress. We sincerely hope that the honor of Congress will not be sacrificed by those who have it in their keeping, for the sake of any party or combination whatever; but certainly there is danger, unless the constituents of the Members exert their influence by protesting actively against such measures. We would recommend to our into huge retorts and there distilled, the volareaders the propriety of their addressing letters to the Members of Congress from their respective districts, remonstrating against the enactment of such laws as will perpetuate these overgrown monopolies-the managers of which have become sufficiently fat from their proceeds already.

Candles Made from Minerals and Turf.

rating it from the parafine, which is left along If all the reports which have come to us recent 156.20. What is this but perpetual motion. with the oil. The liquid is then re-distillly from abroad, with respect to new discoveries in A water ram theoretically will throw one-twened, and the parafine obtained in flaky cakes of making candles, are true, all our whaling ships tieth of the water from the reservoir 20 feet a blackish color. These are then bleached with will soon be laid up in port, or converted into coal high, for each foot of fall, and no more. chlorine gas, then steamed and pressed into grunters. In London beautiful wax-like candles The last paragraph in the above is also cakes, and afterwards made into beautiful white have been made for years from palm oil; nothwrong. A water ram cannot be set at any candles. Other valuable products besides the ing of the kind has as yet, we believe, been spring or stream where there is a fall, to throw parafine, are obtained from the peat, as the made in our country. But more recently, new a constant stream through a mile of pipe, to small quantity of parafine realized from such a discoveries have been made, by which candles the top of a hill 100 feet high. The capacity great mass of peat would not cover all the exare now manufactured in Scotland from coal. of every water ram is circumscribed by the penses. Thus it is that science is contin-Applications have been or are about to be and in Ireland from peat bogs, so there is evehight of the fall and the quantity of water

tion of our country, extensions of their pa- into very dark-colored candles, which, though tents: these must be judged of on their special rather smoky, gave a not bad light, and which merits. We are the advocates of the rights of were occasionally purchased from them as objects of curiosity, but much oftener consumed

> A few years ago, however, some one thought of distilling shales, and the result has been that some of them are exceedingly rich in an inflammable substance, resolvable into gas and tar, and which, from the paucity of its chemical af finities, has received the name of parafine. Of this substance, beautiful candles are made, in no degree inferior to those of wax.

> Our readers will also remember the account of the famous lawsuit which we published on page 10, this volume, "Scientific American," about what was coal and was not coal, and how so many eminent chemists held contrary opinions on the subject. From that particular coal then in dispute, beautiful candles are now being made, as well as from the shales of Binny Crags. From every ton of coal, naphtha and parafine to the value of \$28 can be extracted, and from the parafine snow white candles are manufactured for use and sale.

> In Ireland there are extensive peat bogs, which from time immemorial have supplied the people with fuel. The peat is from 12 to 24 feet deep, and is a soft spongy mass, of a brown color near the surface, increasing in blackness and compactness, as it descends. If these bogs were suddenly submerged and subjected to severe superincumbent pressure, they would form coal beds. The turfs are cut into the form of bricks, and set up to dry in the sun, and when so dried are used for fuel like our coals, only they are all burned in grates, or else in piles on the middle of the floors of the wretched peasants' huts, the only chimneys being holes in the roofs.

These bogs cover no less than 2,900,000 acres of Ireland, and are exceedingly dreary and desert-like wastes.

A company has been formed and a manufactory is now in operation to render these waste places profitable, and to make candles from the deep black, spongy peat. This manufactory i situated near Athy, in the County of Kildare, and is erected at the verge of a great bog twelve miles long. The peat is cut in the bog and carted to the factory, where it is thrown tile products being condensed in a vessel which has a capacity of 8,000,000 cubic feet. From 100 tons of peat, as much tar is extracted as yields 350 lbs. of parafine, and 300 gallons oil. The parafine is obtained from the tar by boiling the latter for an hour, in water containing 3 per cent. of strong sulphuric acid, when the acid unites with the tar and falls to the bottom, sepa-

eighth, as published last week ; and two others sufficiently to have entitled them to prizes otherwise awarded.

Under these peculiar circumstances we find a very agreeable duty imposed upon us-the only one which we feel willing to pursue. Without attempting to change the awards, as published last week, we will pay over the same amount that each of the following would have been entitled to had their letters reached us in due season :--

D. M. Sechler, of Ironton, Ohio, having sent 75 names, is awarded \$40, instead of \$25, as announced.

Charles Burleigh, of Fitchburg, Mass., having sent 65 names, is awarded \$20.

John Boyd, of Xenia, Ohio, having sent 57 names, is awarded \$10.

In pursuing this course our Prize List is increased to \$500, instead of \$450, but we feel confident that it will readily meet the approbation of our friends and secure a most perfect understanding.

The Water Ram.

We give the following extract of a letter as the text :-

"At a meeting of the Farmers' Club last summer you stated that a person in New Jersey had so arranged a watering ram (where there was no natural fall of water) that it threw water at a considerable distance on his farm, and referred to it as showing how an artificial stream could be made where no natural fall existed."

That we have seen done in several instances. Take any place that is naturally wet, and lay down under drains until you accumulate water enough at the outlet, which is easily done. to drive a water ram, and you can send one-eighth of the stream any distance you please through lead pipes, rising twenty feet to every foot fall.

Water rams can be set at any spring or stream where there is a fall, and will give a constant stream at the house on the hill, a mile from the spring and a hundred feet above .-[N. Y. Tribune 29th Dec.

[The idea conveyed by the above is, that upon a perfectly dead level—a ditch in a swamp for example-where water can be accumulated one foot deep, it will throw one-eighth of that quantity through three hundred or a thousand feet of pipe to the hight of 20 feet. A water ram will not operate unless there is a natural fall-an inclined plane. The factory canal at Cohoes, N. Y., is an artificial work, but the fall is no less natural (what is an unnatural fall.)-If one foot of water can throw one-eighth of its volume 20 feet high, then the result produced is to the cause as 156.20 is to 62.5 without allowing for friction. There are 62.5 lbs. in a cubic foot; the eighth of that is $7.81 \times 20 =$

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