Scientific American.

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NEW-YORK, MAY 10, 1856.

The Woodworth Patent Extension Scheme.

The Senate and House of Massachusetts have, by an unanimous vote, passed resolutions against the further continuation of the great Lumber Planing Monopoly; the Members of Congress from the Old Bay State are likewise officially instructed to use all honorable means in their power to prevent the renewal of the patent.

When we state that the Massachusetts House of Representatives consists of about four hundred members, and that the resolutions we speak of were passed without a dissenting vote, it will be understood that the people of that State have a deep feeling upon the subject; they have long endured the oppressive operations of the Monopoly; it rests like an incubus on their mechanical and inventive genius; its greedy grasp is felt in almost every branch of their industry. With one voice, therefore, they protest against its further continuance.

The Chairman of the Committee in the Massachusetts Legislature, to whom the subject of the Woodworth Patent was referred, made a very able report, which we herewith present to our readers. It should receive a careful and deliberate reading.

We also present an interesting letter from the Putman W. Taft, Esq., from whom we received copies of the resolutions. Mr. Taft has long been distinguished for his lively interest in all that promotes the welfare of working people. He is a member of the House, and labored with great zeal to procure the present public expression of the views of that body.

House of Representatives, 1 Boston, April 25, 1856.

MESSRS. MUNN & Co.—In your paper of the 22d of March I saw a statement that a resolution had passed the New York Senate with great unanimity remonstrating against the the further extension of the Woodworth Patent. In some of your papers of prior or subsequent date I have also noticed that similar resolutions have passed the Legislatures of Ohio and Louisiana during the past winter. I now have the pleasure of transmitting a copy of a report and resolves upon the same subject, which have been unanimously adopted by both branches of the Massachusetts Legislature. I send them to you for publication in the Scientific American, as being the organ and true exponent of principles best calculated to promote the true interests of the industrial and producing classes in the United States; and while advocating the rights of the inventor to their utmost limits consistent with the constitution, is still the uncompromising foe of Monopoly, especially when that monopoly seeks not only to oppress and paralize the inventive genius of our mechanics by numerous and vexatious law suits, but also enters the political arena with its hundreds of thousands of ill-gotten gain—filched from the earnings of labor by enormous tax—as an electioneering fund to elect Senators and Representatives in Congress who are willing to become its pampered menials; and to bribe, corrupt, and debauch our national Legislature for no other purpose than to perpetuate its own existence. I send them, too, that the mechanics in our sister States may know that the people of Massachusetts, without regard to trade, calling, occupation, or profession, are a unit upon this question, and are ready to instruct their Representatives and Senators in Congress to oppose the further extension of that gigantic monopoly. This is not the first time that Massachusetts has spoken upon this subject. In 1852, while a member, I procured the names of all the members of both branches of the Massachusetts Legislature to a remonstrance against the renewal or further extension of the Woodworth Patent, and sent it to Washington. The Committee on Patents, to whom was referred the petition of Wm. Woodworth, speak of that remonstrance as embodying the sentiments of the people of the

ation. I trust that the resolves which have the holders of the patent right. Thus this in one of the largest State Legislatures in the United States (amounting as it does to about four hundred members) will be duly appreciated this year by the Congressional committee having the same subject under consideration.

I have in my possession, and shall forward in a few days, a remonstrance signed by nearly a thousand of the mechanics of the city of Worcester, of which number I have the honor of being one. Other similar papers will be sent from Greenfield, and other parts of the Very respectfully yours.

PUTMAN W. TAFT.

COMMONWEALTH OF MASSACHUSETTS. In SENATE, April 12, 1856.

The Joint Committee on Manufactures, to wnom were referred certain resolves relating to Woodworth's Planing Machine, have duly considered the same, and submit the following REPORT :

Your Committee learn that Woodworth's Planing Machine was first patented in 1828.-The patent was originally issued for fourteen years; it was then extended by the Commissioner of Patents for seven years, and again by an Act of Congress, seven years longer, making, in all, twenty-eight years. The last extension will expire in December, 1856. Efforts are now making to have it extended fourteen years longer.

The Constitution of the United States provides, that "Congress shall have power to promote the progress of science and useful arts, by securing, for limited times, to authors and inventors, the exclusive right to their respective writings and discoveries." This exclusive right can only be conferred for a limited time, not perpetually. The object of this provision is, to allow time to the inventor to mature and test the merits of his invention, and also to give him the exclusive right of manufacturing, vending, and operating the same for a series of years, that he may obtain a reasonable remuneration for the time and expense necessary to perfect the invention. This time has been fixed, by law, to fourteen years, and is sometimes extended to twentyone years in extraordinary cases. The invention then becomes public property by the condition of the grant—by the terms of the contract between the patentee and the government. The case should be of an extraordinary character in which the rights of the public are divested for a second term, and the duration of a monopoly prolonged by an act of special legislation.

But the case must be still more extraordinary in which Congress is invoked to grant a third extension for a term equal to that of the original patent, thus reaching forward to a second generation, and depriving them of the benefit, not only of the patented machine, but of all subsequent inventions which, by refinement of judicial construction, quickened by the ramifying interests of a profitable monopoly, may be brought within any of the changing phases which ambiguous language may be made to assume, for the purpose of expanding the claim of the patentee.

This patent has already been extended for a term almost unparalleled in the history of the government, and one is almost amazed at the effrontery and pertinacity with which interested parties seek to continue this odious monopoly. The immense profits that have been derived from the use of this patent enables the parties to exert a tremendous power for their own advantage. By a perfect combination of the numerous assignees all over the Union-by making every user of the machine an interested party—by promises of a continuance of the monopoly, and by making each contribute to the general fund-by requiring all those interested to join in memorializing Congress, and in writing letters to the Senators and Representatives-by the employment of the best legal talent in the land -by subsidizing the press, as far as possible, they are able to create what may seem to the Members of Congress to be a public opinion in favor of their petition. It is on this account, and because the public has no ordinary enemy to contend against, that there is an urgent necessity for legislative action.

Twenty-five per cent. of the cost of dress-

State, and as being entitled to high consider- | ing lumber by these machines is now paid to just been passed, without a dissenting vote, patent affords an annual revenue of several millions of dollars, much of which has been and still continues to be used, to perpetuate its own existence. So long as it shall continue it fixes a direct and heavy tax upon nearly all the machine-dressed lumber in the country. It imposes heavy burdens upon all people, the poor as well as the rich, by compelling them to pay much higher prices for lumber with which to build and repair their shops and dwellings than would otherwise be required. All who use the machine are required to charge the same prices for work, and thus there can be no competition among them. Should the patent be still further extended there is no prospect of a reduction of rates, for when the last extension was granted there was an immediate rise in the price of work, adding from a dollar to a dollar and fifty cents per thousand feet to the former prices.

> The Committee on Patents of the House of Representatives in Congress, in the year 1852, in their report against the extension of the Woodworth Patent, use the following language:-

> "The various grants from the government have invested the memorialist with the most profitable monopoly which was ever granted to a citizen. They have imposed upon the public the most onerous burden of taxation for the benefit of a single man, which was ever inflicted upon the country. The profits have been shared by him and his voluntary grantees. The public have borne the burden. They have borne it so long that it may well occasion surprise. But when they are asked to bear it longer, the inquiry naturally arises, when is the burden to cease? Are thirty-one States to be taxed for another term of fourteen years, that one citizen may become rich enough to satisfy not only himself, but all the grantees with whom he chooses to share the national bounty? If the millions already paid are not sufficient to satisfy the claim, how many millions more are demanded? The country is now paying \$15,000,000 annually, for work which can be done for \$3,000,000. A profit of one hundred per cent. would seem to be sufficient, upon an article of indispensable necessity. But even beyond this, there is an excess of \$9,000,000 a year, to be paid by the public for fourteen years. And even this furnishes no guarantee that a new extension will not be applied for before the term begins to run. The next Congress may be told, as we are told now, that the extended term has been sold out by the administration for \$50,000, and that the debt due to William Woodworth has not yet been paid to his son.

> But the debt has been paid. The application is without a shadow of claim, either upon the justice or the bounty of Congress. This patent should no longer stand as a bar to inventive genius; the public should no longer be burdened with its exactions; this department of American industry should no longer be clogged with the revival of an expiring monopoly. The country is one of progress and growth. It is rich in its builders, its mechanics, its artisans; it is rich in its boundless forests, and neither the axe which fells the tree nor the implements which adapt it to the uses of life, should be made the instruments of needless exactions."

Your Committee, therefore, recommend the passage of the accompanying Preamble and Resolutions.

For the Committee. B. F. WHITE. Chairman.

RESOLVES RELATIVE TO WOODWORTH'S PLANING MACHINE.

Whereas. We believe the true object of our patent laws to be, protection to the inventor, and not the establishment of a monopoly in the hands of speculators in patents, that may tax the industrial pursuits of the country. without an equivalent; and whereas, we believe the renewal a second time of the patent on Woodworth's Planing Machine, would be a violation of the spirit and design of our patent laws, and fix an unjust and oppressive tax on the mechanical pursuits of the country, therefore

Resolved by the Senate and House of Repre-

That our Senators and Representatives in Congress be requested to use all honorable means in their power, to prevent the renewal of said patent, upon the application of William W. Woodworth, or any person in his behalf.

Resolved, That the Governor of the Commonwealth be requested to forward copies of the foregoing Preamble and Resolution to our Senators and Representatives in Congress.

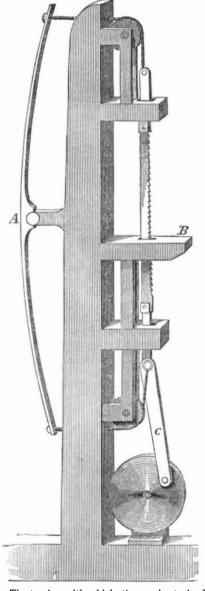
Recent American Patents.

Contrivance for Cleaning Knives-By A. C. Ketchum, (assigned to E. B. Olcutt,) of New York City.—The knives are secured side by side upon a flat board, by means of a clamp, and another board having leather strips, or strips of other suitable elastic material, attached to its under surface, is rubbed back and forth on the knives, and thus they are scoured. This invention is the essence of simplicity.

Improved Electric Printing Telegraph.—By Henry N. Baker, of Union, N. Y.—This telegraph differs from other electro-magnetic printing telegraphs principally in the devices, which are employed for sending and for receiving and printing the communications. The various parts are simpler than the ordinary printing telegraphs. and it is much less expensive.

Improvement in Saw Mills-By T. Sharp, of Albany, N. Y.—This invention consists in straining the saw by means of a single spring placed behind the standard, as shown in the engraving.

A is the spring, pivoted in its center. The ends of the spring are connected, respectively with the ends of the saw, by cords which pass over friction rollers. The heads of the saw pass through guide holes in the frame.



The tension with which the saw is strained depends on the stiffness of the spring, which, of course, can be regulated at pleasure. As the saw moves up and down the spring vibrates back and forth on its pivot, always keeping up the same strain. The stuff to be cut is fed against the saw, at B, in the usual manner. Motion is given to the saw by pit-

The inventor states that this improvement sentatives of the Commonwealth of Massachusetts, entirely does away with the heavy and ex-



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pensive gate or saw frame hitherto required | that this method of treating the needle prevents | killing the accomplished Legare, Upsher, and | spoonful is given at a dose. It is only used in all saw mills, and diminishes by one half | local attraction in both ships and surveyors the power required to cut lumber, and, consequently, the cost of producing the same. In some other modes of saw straining the tension comes, to a certain extent, upon the pitman, and thus increases the power required to drive the mill, adds danger of breakage, &c. The above invention possesses no such disadvantages. Any desired amount of strain may be put upon the saw without affecting the pitman or increasing the power, for the tension all falls upon the saw itself. The stroke of the saw may also be increased or diminished without affecting the strain.

This improvement is exceedingly simple in construction and operation. It is well adapted to portable saw mills, and permits their manufacture for \$30 and upwards, according to size. Address the inventor for further information.

Improvements in Harvesters-By W. H. Hovey, Springfield, Mass.—The cutting teeth in mowers are usually rivetted fast to the sickle bar. When they become broken or damaged it requires time to replace them. It is vexatious, when cutting grass in the middle of a ten acre lot, to have to knock off and drag the machine to a blacksmith's shop.

The object of the present improvement is to afford a simple, quick, but strong means of putting on and taking off the teeth. This is done by means of pins which pass through the sickle bar and the ends of the teeth, A clamp bar or cover rests on the heads of the pins and keeps them in place. Remove the bar, and any of the teeth can be removed, new ones substituted, &c.

Pen and Pencil Case.—By Edward Baptis, of Hoboken, N. J., (assigned to G. S. Clark,) of New York City.—Turn the case in one direction, and a pencil projects; turn it the other way, and the pencil withdraws into the case, and a pen slides out ready for use. These movements are effected by the employment of double tubes or cases placed one within the other, and having screw threads upon them. It forms a very convenient and useful article.

Improved Shingle Machine.—By John B. Evins, of Green Castle, Ind.—The shingles are cut from blocks of wood, previously prepared, by means of a knife which rises and falls in a frame or gate, somewhat like the old-fashioned straw cutters. The improvement consists in a novel application of levers, which impart a drawing cut motion to the knife.

Recent Foreign Inventions.

Dehairing Hides-C. Claus, England, has obtained a patent for a certain liquor for unhairing hides, as a substitute for lime. Carbonate of lime is first fluxed with sulphur in a furnace, and gypsum is also burned at a red heat in contact with coal in a furnace. These are lixivated with hot water, and the liquor employed for dehairing the hides. They are steeped in it in vats, and examined from time to time. Such a liquor may be better than milk of lime for the purpose stated; it is only by experiment this can be determined.

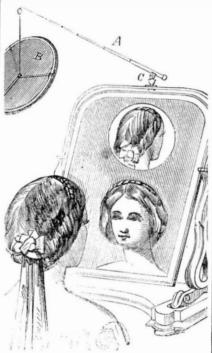
Printing Ink-T. De La Rue, of London, has obtained a patent for an improvement in printers' ink, consisting of the use of a small quantity of the borate of magnesia added to the ink to improve its drying qualities.

Railway Wheels-S. Sudbrook, of London, has obtained a patent for an invention which consists in forming the periphery or outside edge of railway wheels with wood forced and pressed into and between suitable plates and chambers in such a manner as to form a very hard and compact surface, with the end of the wood so placed as to run on the rail; it is the same application of wood to the tread of railway wheels that has been applied to the bearing boxes of shafts.

To Prevent Local Attraction in Compasses-I. Moore, of Glasgow, has obtained a patent for the above named object, in order that the compass may be made to indicate correctly on iron steamers. The needle is enclosed (except at the point of suspension) in pure shellac or resinous composition. It is them imbedded in cork of considerable thickness, which is covered with shellac. In this condition the needle compasses.

Paper from Refuse Tanned Leather-Lazare Ochs, of Belgium, has obtained a patent for making paper from the cuttings, waste leather, and scraps of tanned leather. The manufacture of paper from leather is an old story, as an American patent was obtained for such paper many years since; but M. Ochs' method of treating his leather to take out the tanning is worthy of attention for its simplicity. The scraps of tanned leather are placed in sieves on the ends of arms or spokes on a wheel, and are made to revolve in a stream of water, which operation, when continued long enough, washes out the tannin from the leather. After this about 20 per cent. of old hemp rope is mixed with the scraps, and the whole is cut up and reduced to pulp, from which the paper is made. A very strong coarse wrapping paper is made in this manner.

Improved Toilet Glass—This improvement present the peculiarity of reflecting the back of the head as perfectly as it does the face, on one surface at the same time, thereby enabling a lady to arrange her back hair with the greatest ease and precision. A brass telescopic rod, A, with a circular mirror, B, suspended from it, is attached to the top of an ordi-



nary toilet glass by means of a thumb screw C, and when the rod is drawn out in the position shown in the drawing, the back of the head is at once reflected in the glass; when not required for use the circular mirror can easily be placed back at the top of the glass out of the way, so as not in the least to interfere with the ordinary use of the glass. This is an ingenious contrivance. Exhibited at the late exhibition of the Society of Arts and Manufactures, London, by Messrs. Heal &

Charcoal in Biscuits-A patent has been obtained by J. Bird, of London, for an application of purified wood charcoal in fine powder mixed with flour for biscuits. It is stated that this is "an agreeable form of using the charcoal medicinally." Charcoal powder is used by dyspeptics, and those troubled with sourness or acid and gases in their stomachs, and the foregoing biscuit is especially provided for such. As starch and fat flesh meat contain a great amount of carbon or charcoal, the biscuit may also be designed to answer the purpose of food.

Experiments with Metals.

In the two preceding numbers of the Scien-TIFIC AMERICAN we have briefly presented some new and useful information derived from the reports of the U.S. Officers of Ordnance, and we will conclude all that we intend to say on the subject in our next.

It will be remembered by many of our readers that on the 28th of February, 1844, while President John Tyler, with a number of the members of his cabinet and other distinguished personages, were on board the steam frigate Princeton, a huge wrought-iron cannon, named

others. This sad accident, which created great sensation throughout our country, resulted in condemning, at the time, the use of wrought-iron as a material for cannon, but no satisfactory cause for the bursting of that gun has been made public until now. Under the direction of Major Wade three bars were cut from the exploded cannon, and submitted to a breaking test. They were each two feet long and nearly two inches deep and broad, and were set on supports twenty inches apart, and the breaking force was applied at the middle. With a weight of 10,800 lbs. applied, the bar was deflected ·35 of an inch, and received a permanent set of '30 of an inch. The tensible strength of these bars was also tested in comparison with similar bars of "Russia" iron and English "Low Moor" iron, and "American Bridgewater" hammered iron. The Russian iron yielded with a force of 62,644 lbs. to the square inch; the Low Moor yielded with a force of 56,103 lbs.; the Bridgewater with a force of 53,913 lbs., while the bar from the Peacemaker only stood the strain of 38,495 lbs. The strength of the metal had been impaired by forging as 5 is to 6; but it is very evident that it was very inferior metal. The strength of it ought to have been tested before it was made into a gun; if this had been done a better quality might have been selected, and the unfortunate accident described might not have taken place. Great care should be exercised in the selection of the kind of iron for the particular purpose designed. But how often is this precaution neglected; nay, it is never thought of in too many cases. There is just as much difference in the quality of cast and wrought iron as there is in that of timberas much difference between the strength of the highest and lowest qualities of iron as between bass-wood and hickory. With regard to the selection of the materials and the necessity of looking to their quality, Major Wade makes some very judicious remarks. He says :—

"What most demands attention at present is the ascertaining and prescribing the conditions to be exacted of the raw material, and of its treatment up to, and exclusive of the casting; for if we do not make sure of obtaining a good quality of iron at the time of its casting into the mold all else is useless, and worse than useless."

Will our engineers and mechanics give heed to these suggestions? The safety of many lives are oftentimes dependent on the strength of a shaft, a beam, or a plate of iron, the quality of which may never have been tested; and yet we are assured, in the work referred to, that different kinds of cast-iron, when submitted to the test of the hydrostatic pump, varied in strength from 1 to 3; that is, one kind of cast-iron possessed three times the strength of another kimd; and yet all of these irons had a respectable reputation in the market, and this great difference in their strength never was suspected.

Notes on Ancient and Curious Inventions.—No. 6.

Medicines—The last article—No. 5, page 269—on this subject, concluded with the diaphoric sweating powder of Horton Howard, of Columbia, O., patented August 25, 1832. His other four patents granted at the same time were, 1st, a bitter tonic; 2d, an astringent tonic; 3d, a compound tincture of myrrh, 4th, an anti-spasmodic tincture. All of these patented medicines are as good as the most of the puffed up kind sold at the present day, and the ointment is of the proper consistency. It the drugs of which they are composed are very generally used. We will describe two of hours until a cure results. This ointment has the receipts, as the medicines are good if ad- the appearance of being pretty good for the ministered at the right time, and if not, they purpose designed.

The Bitter Tonic consists of bark of poplar, 1 lb., root of golden seal, 1 lb., bark of bayberry root, 1 lb., root of American columbo. (Fracera Vertilillata,) 1 lb., cloves and capsicum each 6 oz., and 4 lbs. of good sugar.-These are all pulverized and mixed together and given in water, a teaspoonful to a dose. To render this compound powder laxative, a pound of bitter root (Apocynum Androsaemifolium) and some more cloves, sugar, and capsicium are added. The anti-spasmodic tincture consists of tincture of lobelia seeds, 1 pint, tincture of capsicum, 1 pint, nervine tincis suspended in the usual way. It is stated the "Peacemaker" burst, while firing a salute, ture, 3 gills. These are mixed, and half a tea-

in cases of fits and spasms, and of apparent death from drowning, &c. The tincture of lobelia seeds is prepared by steeping half an ounce of the seeds in a pint of alcohol for ten days; and the tincture of capsicum in the same way, using the same proportions. The nervine tincture is made by taking 4 ounces of ladyslipper, 2 oz. of ginsing, and 2 ounces of nutmeg, and steeping them for ten days in alcohol. It is then strained, and an ounce of anine added to every pint. We do not advise persons to use this medicine.

Cholera Medicine-In October 1832, Jacob Houck, of Baltimore, Md., obtained a patent for a cholera medicine, consisting of gum guac, juniper oil, and rye whiskey in equal parts. A table-spoonful of this mixture in an equal quantity of water was to be taken whenever any premonitory symptoms were felt, and if the first dose was not successful it was to be repeated in half an hour. If the pain was very severe, the dose was to be doubled, and repeated in two hours. After the pain was relieved, fifteen grains of calomel was to be taken, and after this had operated a dose of castor oil was given. This was certainly a cholera medicine; we do not say "preventive or curative."

Another cholera medicine patent was granted to Anthony Hun, Sen., of Lancaster, Ky., on 12th of Aug. 1833—the year of the first visitation of this terrible disease. As soon as the symptoms appeared blisters were to be applied to the pit of the stomach, the crown of the head, on the arms above the wrists, and on the ankles, to draw out the cholera, we suppose. Thirty drops of the following were then to be administered every hour: Paragoric, elixer, and sulphuric ether, in equal parts, and to every dram of this 4 drops each of cajiput and anise seed oil were added. This patent for curing cholera embraces a very afflicting dispensation.

Worm Medicine-J. Oellig, of Pennsylvania, whose patent pill was noticed last week, obtained a patent at the same time with his pill for medicine to destroy worms in the human body. It consisted of an ounce of castor oil 2 drops of oil of tansy, 12 of tincture of foxglove, 10 of the oil of anise seed, 15 of male fern, and 1 scruple of the oil of wormwood seed. A teaspoonful of this medicine was to be given to a child every two hours until it operated. An ounce was a dose for an adult. This medicine appears as if it would effect the object designed, but the dose is too large by one half, at least.

Cancer Ointment-On the 31st of March, 1836, a patent was granted to E. Gilman, of Ohio, for an ointment to cure cancers, composed of finely pulverized sulphate of iron (copperas) made into an ointment with mutton suet. This was spread upon a piece of linen cloth and renewed when necessaryabout every ten hours. The cancer was to be washed every time before the ointment was applied with a decoction of spikenard and a little soda dissolved in the water. This, at least, is a safe ointment, if it may not be an effectual one.

Ointment for the Cure of Piles-Wm. W. Riley, of Mansfield, Ohio, obtained a patent for this ointment on January 31, 1844. It is composed of 2 ounces of flour of sulphur, 1 ounce of powdered nut galls, 1 grain of powdered opium, all intimately mixed with lard, until is applied to the parts affected twice every 24

Great Fire in Philadelphia.

Philadelphia was visited on the 1st of May with one of the most destructive fires that has ever taken place in that city. We regret to state that 44 buildings were destroyed, which, with the merchandize consumed, were valued at \$600,000, On this there were \$386,000 insurance.

Monster Mortar.

Messrs. Forrester, of Liverpool, Eng., hav recently cast a mortar from Nova Scotia charcoal pig iron. It weighs 14 1-2 tuns; is 7 1-2 feet long, 3 feet 9 inches in diameter, and has a bore of 18 inches.