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Reported Officially for the Scientific American LIST OF PATENT CLAIMS

Issued from the United States Patent Office FOR THE WEEK ENDING AUGUST 24, 1852.

BILL REGISTERS-By J. N. Ayres, of Stamford, Ct. : In combination with the perpetual calender in the same table, frame, or box, I claim the bill re-gister, consisting of the stripe or sheets of paper, or other material, suitably ruled for names and amounts, and inserted in or attached to the table, amounts, and inserted in or attached to the table, frame, or box, in any convenient way, so as to be easily removable, or removable on either side of the columns of days of the month and week, undersuit-able headings, which denote whether the bills are payable or receivable, as setforth.

COOKING STOVES-By R. J. Blanchard, of Albany N. Y. : I claim placing two separators in the front and back descending and ascending flues of a cook-ing stove, to divide the products of combustion whilst they are permitted to pass undivided over the top and under the bottom plate of the oven, substantially as described

LASTING BOOTS-By Hezekiah Conant, of Wor-cester, Mass.: I claim the combination of the two levers connected together and connected to the jaws, also connected to the step, by which combination, on opening the pincers, the simultaneous motion of the two jaws are guided so as to take hold of both sides of the leather, and by pressing the handles towards each other, bring up the leather with equal tension on both sides. I claim this for the purpose and in form, substantially as described.

form, substantially as described. MACHINE FOR OUTTING CHEESE-By W. K. Fos-ter, of Bangor, Me.: I claim the combination of the groove, and the slot, with the spindle and its sus-taining board, so as to guide the point of the knife, and support the pointed end of the knife, when the knife is forced down through the cheese, as stated. And in combination with the groove, slot, and plate or board, I claim the secondary rotary board, to be applied and used, substantially in the manner end for the nurnose sneaffed. and for the purpose specified.

BED FOR INVALIDS-By S. D. Hopkins, of Staunton, Va.: I claim suspending the sheet, hammock, or mattress upon which the patient lies, to a carriage which moves on a frame placed over or around a common bed, so that by said carriage, the patient may be raised up or let down upon the bed, or mo-ved from one place to another, or gently exercised, the whole being arranged, combined, and operating, substantially in the manner described.

LASTING BOOTS-By Benj. Livermore, of Hart-land, Vt.: I claim the mode of bringing the arms together by means of the slots in the arms, and the bolt operating in the slots, when this is used in combination with the standard, substantially in the manner described.

CHURNS.-By Rufus Maxwell, of Lewis County, Virginia: I claim, first, the forcing of the milk through a rack, by revolving the churn in an orbit, without turning it on axis. Second, the bow and rods connected together as

described.

ABUTMENT MOTION FOR REVERSIBLE ROTARY ENGINES-By C. A. Mills, of Coldwater, Mich.: I claim the combination for the purpose of withdraw-ing the sliding heads, at proper intervals, and re-taining them, whichever way the engine is working, of the rods, the levers, the wheels (two), with their wrdge-shaped projections or inclines, and the springs, the whole arranged and operating in any way, sub-stantially as set forth.

MACHINES FOR CUTTING HAND RAILS--By Goo. B. Pullinger, of Philadelphia, Pa.: 1 claim arrang-ng the rollous, one above the other, within a revol-B. Pullinger, of Philadalphia, ra.: 1 claim arrang-ing the rollous, one above the other, within a revol-ving frame, so as to allow of the curved roller, or its equivalent, being substituted for the roller, at the time desired, and in the manner and for the purpose fully specified

Horse POWER-By David Russell, of St. Louis, Mo.: First, the combination of the canting tread wheel, an horizontal sweep shaft, and friction wheel for producing motion in the manner described, by which the whole is always running down hill, by throwing the weight of the horse on to the canting wheels, just forward of it, as described.

wheels, just forward of it, as described. MECHANISM FOR GRIPING WOOD-SCREW BLANKS, ETO - BY T. J. Sloan, of New York City: I claim for operating the griping jaws on the mandrels of machines for threading or shaving the heads of wood screws, the employment of a wedge on astem with-in the mandrel to act on the jaws to close them, sub-stantially as specified, when the said wedge stem is combined with a sliding frame, or its equivalent, by means of an interposed spring substantially as spe-cified, for the purpose of adapting the jaws to the griping of blanks of various sizes, as set forth. And I also claim, in combination with the said spring connection for the purpose specified, the ma-king of the wedge faces curved, substantially as spe-cified, to insure an equal, or nearly equal, force on

cified, to insure an equal, or nearly equal, force on the griping jaws, as set forth.

THREADING POINTED WOOD SCREWS-By T. J. Sloam. of New York City: I claim giving to the mould or former, or its equivalent, motion, substan-tially as specified, whereby the cutting away of the

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ing it in a confined building or room, without chim-ney or draught, substantially in the manner set forth

## Woodworth Patent. [Continued from page 398.]

So far as the claim is urged on the attention of Congress upon the score of expense incurred in the various suits brought by the proprietors of the Woodworth patent, it presents some peculiar aspects. If the administrator made an absolute sale to Wilson of his rights under the second extension, over four years before the term began to run, it is not easy to perceive on what principle he can claim the supposed expenses of Wilson's lawsuits as entitling Woodworth to further bounty. If, on the other hand, the sale was merely ostensible, and made with a view to obtaining a still further extension. it is equally difficult to perceive on what principle he can claim that he is to be paid over again by the public, who have paid such immense sums already, by his authority, to his agent and grantee. But he claims that the courts are favorable. and the infringers wealthy. The laws against piracy are severe, and the remedies ample and easy of access. The costs fall upon the defendants, and the owners of the patent receive the damages. The remuneration is abundant; the owners are not slow to assert their rights; for each wrong they claim and obtain redress; the remedy survives the term and is in no degree dependent upon its duration.

But in connection with these litigations there are other matters which invite serious attention when the administrator appears before Congress as a petitioner for turther bounty. It seems from his own showing that the original patent was invalid, and was only made effectual by the re-issue six years after the death of the patentee; yet the litigation was as rife and the owners were as successful under the void patent then, as under the valid patent since. Even the original grant embraced what was never invented by the patentee, as conceded by the disclaimer filed in the Patent Office, by William W. Woodworth, on the 2nd of January, 1843, four years atter his father's death. The extension of 1842 was obtained by the administrator upon papers which, to say the least of them, did not disclose the whole truth; but even then, no pretence was made that William Woodworth had invented anything more than what was claimed in the original patent of 1828. The second extension of 1845 was procured from Congress without the usual investigation, without even the customary report by a committee, without discussion in either house, and upon papers which did not disclose the facts material to a proper decision upon the appli- original term, and expressly provided that it cation. But even then no protonee was made should issue "for the residue of the period that the invention covered anything more than was claimed in the original patent, nor was any intimation given to Congress of an intention to change the subject matter of the assumed by the owners of the Woodworth proposed grant by obtaining a re-issue of the patent upon new and expanded claims, so framed as to strike down the intermediate inventions of other citizens as infringements and to cut off by anticipation, as far as human toresight could go, all subsequent inventions in this department of mechanical industrv

Within five months afterward the re-issued patent was obtained; by what means it was procured is unknown to the public. The evidence in such cases is secret and ex parte .-It is sufficient to say that after a previous deliberate decision of the Commissioner of Pa- stituted a substantial difference between them tents, rejecting the application of William W.

property, those who claimed the right to use its combinations were prosecuted by the owners of the Woodworth patent as infringers. One of the unfortunate effects of the grant of a re-issued patent upon the ex parte evidence of interested parties is, that the instrument itself becomes presumptive evidence that all it grants was a part of the original invention of the patentee, thus throwing upon the defendant the burden of proving the negative fact that he did not conceive the invention. The fact that no such claim was made in the original patent is not admitted by the courts to overcome the effect of the new grant. This legal presumption has been held so sacred as not to be overcome even by the acts and declarations of the patentee, his recorded admissions, and his deliberate oath.

Without pausing to consider the propriety of giving such force to a presumption based upon evidence so objectionable and unsatisfactory, it will readily be seen how disasirous the effect must be upon the rights of defendants. By the operation of this and similar rules of presumption in tavor of the validity of patents, and by the aid of other circumstances, to which it is not necessary here to allude, the re-issued patent has been as yet upheld in the courts, and skillful experts, whose frequent testimony in the suits brought by the owners of the Woodworth patent has made their names familiar to the country. have not failed to find a new construction of the claim whenever it became necessary to strike down some new invention. That the claim of the re-issued patent, in any form. should ever have been sustained seems strange enough, in view of the fact that it embraces combinations which William Woodworth never put forth as invented by him down to the last day of his life, which he repudiated in his affidavit of 1838, and which were never claimed for him even by his administrator until many years after his death. Even if he had actually invented all that is embraced in the re-issue, the omission to claim it at any time during the fourteen years was a dedication to the public of all which he did not choose to embrace in his original patent. That dedication could neither be recalled by his administrator nor revoked by the Patent Office .-The re-issue was granted atter the second congressional extension. That this was in conflict with the policy of the law will not be disputed; and it requires an ingenuity of construction beyond the reach of ordinary minds to reconcile the grant with the language of the statute under which it was made. That statute authorized a re-issue during the then unexpired for which the original patent was granted." (See patent act of 1836, chapter 357, section 13.) The various attitudes patent in the assertion of their claims, as disclosed by the reported cases and other papers and documents submitted to the committee by the memorialist and the remonstrants, are not unworthy of a passing notice in this connection. The novelty of the Woodworth invention was questioned in some of the earlier cases, on the ground that the combinations claimed in the re-issue were substantial ly the same in principle with the prior inventions of Bentham, Bramah, and Muir. The owners of the patent insisted that the use of the stationary planes in those machines conand the Woodworth machine, in which the Woodworth for re-issued letters patent, a re- rotating planes are employed. In the case

Yet, even when that invention became public tried at Boston in 1848, the late Mr. Justice Woodbury, after showing that stationary knives were employed by Muir, and revolving knives by Woodworth, says :-

"The principle is entirely different .-Woodworth operates by an adze cut, while in Muir's machine the knives are stationary, and the board is shoved over."

Having thus sustained the novelty and validity of the Woodworth patent against previous inventions on the very ground that in the re-issue the combination was restricted in the claim to the revolving knives the exact converse of that position is taken by the owners of the patent for the purpose of stopping subsequent machines; and they are now prosecuting, as infringers, parties who use the stationary planes, and not the revolving knives. This is claimed upon a new construction of the patent which is put forth to meet new cases. It is insisted that the patent is for certain functions; that as the office of a knife is to cut, any thing which will cut, whether rotary or stationary, answers one of the functions of the patent; that as the office of a pressure roller is to hold the board, whatever will serve to hold a board answers the other function of their patent. The practical result of this theory would be that any machine which would plane a board to a uniform thickness would be an infringement of the Woodworth patent; for it is of course impossible to plane without using some cutting instrument, and the board, unless held in its place, would of course be pushed off by the knife. This dectrine is directly at variance with all former constructions of the patent by the courts; and the committee congratulate the country upon the fact, that in the only instance in which it has been directly presented and passed upon, it has met with the prompt rebuke of the bench. This was in the case of Brooks et. al. vs. Fiske et. al., decided in February last in the United States Circuit. The following is an extract from opinion of Mr. Justice Sprague, which was adverse to the Woodworth patent :-

"Another view presented by the plaintiff's counsel is, that this is a patent for an organized machine, containing parts performing certain functions and producing a certain result, and that any machine in which those functions are performed and such result produced, is an infringement, although it have no rotary cutter or pressure roller, but accomplishes its work by other instrumentalities. This construction cannot be maintained."

## [Concluded next week.]

Another Use for the Telegraph Wires. Scientific investigation and practical experiment have demonstrated the ability of the magnetic telegraph wires to ring, at the same moment, all of the bells distributed in various sections of our city, for the very useful purposes of fire alarms. This fact suggests another idea, namely; that of lighting all the gas lamps of the city by the same means of telegraph wire. Very simple machinery only would be required to turn the cock of the gaspipe, and, simultaneously with the escape of the gas, to apply the electric spark. Thisexperiment would ultimately prove an economy to the city; and would also prove another triumph to scientific art, which has been already applied successfully to the business of everyday life .- Boston Commonwealth.

This has been proposed a number of times during the past five years, and some experiments, we believe, were made on a small scale in Paris. Could this be accomplished, a very desirable and important saving would be ef-

tially as specified, whereby the cutting away of the	wood worth for re-issued letters patent, a re-		fected in all our cities, but it cannot be accom-
	issue was granted by the Chief Clerk of the		plished as suggested above.
away at the first threading motion, as heretofore			
practiced.	in the original patent, and enabling the own-	rence in this element of the combination be-	Steam Grain Elevator.
RAILROAD TRUCK-By Edwin Stanley, of Ben- nington, N. Y.: I claim, first, the combination of	ers to wage successful war upon numerous	tween the Woodworth machine and those of	
the brake with the wheel and rail, arranged and	inventors whose machines threatened to com-	Bentham, Bramah, and Muir to be entirely	just completed a floating elevator, for the pur-
operating substantially as described. Second, making the wheel substantially as descri-	pete successfully with their own. From that	decisive and controlling, says :—	pose of unloading and loading grain. The
bed, for the purpose of preventing from clogging with snow or other substances, and giving it a better	time the claims, even under the re-issued pa-	"Regarding, then, the Woodworth machine	elevator is so arranged that it will not only
hold upon the rail, as suggested.	tent, nave been expanding, until the only	as substantially different from the three last	measure grain from one boat, and deliver it on
APPARATUS FOR FEEDING BOILERS-By Andrew	fixed fact in its construction seems to be that		another, and give the accurate quantity, but
Walker, Jr., of Johnsbury, Vt. : I claim the combination of the heater, or vessel, and its pipes and	it is a general declaration of war upon every	consist in this, that they act in planes parallel	will also receive it from a boat and deliver it
stock cocks, or either of them, with the tank, boil-	possible invention for dressing lumber more	to the surfaces to be removed, Woodworth's	into the first, second, and third stories of any
er and force pump, so as to operate therewith, or en- able the force pump to be operated, substantially in	successiony man the woodworth machine.	in vertical curves; that theirs produce an	
manner and under the circumstances as set forth.	The records of the Patent Office show that	absolutely level surface, his a surface appa-	15,000 bushels of gsain per hour-will sepa-
BE-ISSUE.	William Woodworth, the father, admitted the	rently level, but in fact corrugated or groov-	rate the cobbs from corn, or other large sub-
	validity of the patent of Uri Emmons, and	ed."	stances, most always in grain, and will also
described of burning lamp black, that is to say, burn-		In the case of Woodworth versus Edwards,	screen and blow it, and give the exact weight.
		the second s	