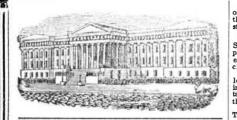
Scientific American.



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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 OCT. 23, 1855. DOVE TAILING MACHINE—John Bell, of Harlem, N. Y. claim the combination of the box, clamp, or frame, E its equivalent, for holding the pieces to be dove taile the tenned, with the series of rotating cutters, substantial rou described or or ly or tenoned, with the series of rotating cutters, substantial-ly as described. I also claim, in combination with the double inclined tables, the double set of rotating cutters, having the planes of the edges of the cutters working parallel with said ta-bles, substantially in the manner and for the purpose set forth.

SOTTHE FASTENING.-Cyrus Clapp, of Montague Mass.: I claim the fastening of scythes to snaths, by means of the concave socket, d. d. (fa, 4) and section of a ball, e e, (fg. 1) to which the scythe, g, is attached, and the cea-ter bolt, f. as described, the whole being arranged substan-tially as, and for the purposes specified. FELTING HAT BODIES-Wm. W. Cumberland, of New-ark, N. J.: 1 claim, first, the arrangement and combina-

FELTING HAT BODIES-WIM. W. Cumberland, of New-ark, N. J. 1 claim, first, the arrangement and combina-tion in the manner substantially as set forth, of the hollow cone, F, and solid cone, G, placed within it; the larger ends of said cones being uppermost, having a wedging space between them of a proper size and angle, wherely the hat body, placed between them in the wedging space. will tend to tighten itself by its own weight, in the space, as it is rolled between them in the wedging space, will tend to tighten itself by its own weight, in the space, as it is rolled between the conce, as fully set forth. Second, the comtination and arrangement in the man-ner, substantially as described, of the reciprocating yield-ing roller frames, L L, with the table, 5, one of them having such a motion, around the shaft, D, as to croze, or change the position of the hat body by the friction of the rollers upon the hat body upon one side, and the friction of the hat body on the table on the other side. Third, the combination of the purpose of limits the weight of the cone, P, and thus diminishing the friction of it up-on the collar of the shaft, D, on which it rests bolow. Fourth, 1 do not claim felting hat bodies by means of rubbing surfaces, carrying a roll between them ; nor by means of an elastic cone carrying a roll. But I claim as my invention partially felting hat bodies, enclosed, in their more tender state. In A hollow classic cone, between two surfaces, at a less distance from each other than the diameter of the cone, but not so near to each other as to cause the skets of the hat body, to form itself into a roll. Coat Livr, spins_Joh, B. Creemer, of Philadelphia, Pa.

into a roll.

COALLIFTERS-John B. Creemer, of Philadelphia, Pa. I claim the dish. H. and fect, J. in combination with the screen, operating as described, and for the purposes set forth.

GAS REGULATORS-Julius C. Dickey, of Saratoga Springs. N. Y. : I claim the valve chamler, B. castin one piece with the periorated plate, I. in combination with the adjustment of the valve placedoutside, as described, and for the purposes set forth.

DAGULRREGAVER PLATE VISE—Samuel S. Day, of New York City: I claim the combination of the clamp, e, with the screw rod, c, bow, d, and can piece, f, to hold the daguerrectype plate tetween and teneath the lips, I, and 3 or 4, and g, in the manner and as specified.

FINISHING CARPETE-Samuel Fay. of Lowell, Mass. : I claim giving to woven figured fabrics, such as carpets, the fi.ished appearance derived from the application of heavy pressure, whilst placing the goods in a roll, for con-veniance of transportation, and without distorting the pat-tern, by an irregular undue stretching of the tabric, sub-stantially as described.

stantially as described. CARD PRINTING PRESS_Thomas Harsha, of West the form, to the lever, G, and connecting said lever with the form, to the lever, G, and connecting said lever with the link rollers, c d, and fee rollers, M , as shown, so that when the lever, G, is moved, and the form brough over the i.k led, J, the paper will be feed over the led, Q, on which the paper is printed; and when the lever is moved over the bed, Q, in order to print the paper or cards, the charged ink rollers will pass over the ink bed, J, where-by the i.k ted is kept properly charged with ink, and the paper fied ever the bed on which the paper is printed, and the paper or cards printed by simply moving or operating the lever, C, as described. I also claim passing the paper between two knives, T U, arraged substantially as shown, in relation with the lever, C, so that the printed paper or cards will be cut off in proper lengths as the form is pressed upon the paper, the k, ives cutting off a previous impression at each de-pression of the lever. [The above invention is a printing press on a very small

[The above invention is a printing press on a very small

scale, intended for the aid of postmasters, merchants, and others, who have occasion to use business cards or stamps By the peculiar arrangement of parts, the paper or cards are fed on to the type by the movement of the impression lever. The construction is quite simple and effective. Presses like these can be afforded at a very small cost. They will enable any person to become his own printer.]

MELODEONS-Geo. G. Hunt, of Walcottville, Conn. : I claim the described construction, whereby two, four, or m resets of reeds may be operated by one and the same valve, in the manner set forth.

SAFETY ATACHMENT IN FROM OF RAILROAD CARS —Charles Mikun, of Washington, D. C.: I am aware that rollers have been suggested or described as forming a part of a safety attachment to railroad carriages, in com-bination with a dovice, which may perhaps be considered by the office as an equivalent of the bar, and in manner somewhat similar to my method. I therefore disclaim such combination as referred to by the office. But I claim the peculiar and novel combination and ar-rangement of the vertical and horizontal rollers with the bar, a described and represent.d.

SEED PLANTERS—Daniel B. Neal, of Mount Gilead, O. : I claim the arrangement of the shovel, c, the slotted and groot ed slide, a, and gauge slide, b, when constructed and operated in the manner and for the purpose set forth.

SEALING PRETERVE CANS-Stimmed Lutz. of Phila-delphia. Pa.: I do not claim broadly a self-seaing can, with a roove prepared with cement, nor do I claim a ground stopper and seat; nor a strew cap and mouth, made air-tight whather cement be us do r not. But I claim sealing adouble sided can or jar at the out-side, at or near the bottom, in the manner and .or the purpose set firth.

P REPARING COTTON SEED FOR EXTRACTING OIL-Oscir Reisenbich, of Norriton Township. Pa.: I claim the application of sulphuric acid, or acids in general, to fre exton sectas it comes from the cotton gin, from all su r unding cotton fiber, previous to the extraction of oil from the seed.

M 'THE FOR SWEEPING GUTTERS, &C._.Robert A. Smith, of Philadelphia, Pa.: First, I claim an adjustable cuiter ru-h, made to conform to, or correspond with the shape of the gutter to be sweepl, so constructed and ar unged 'ta.' may be removed from and app ied to the ord of the shaf which carries it with facility, substantial-y as down, ed. Second, I claim the gut or gauge wheel, c, arranged so as to prevent the gutter 'rush from being carried to hard againstor over the curb stones, so as to derange or is jure it.

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stones, substantially as described. MACHINE FOR COMPOSING AND SETTING TYPES-Wm. S. Loughborough, of Rochester, N. Y.: I claim, first, the presentation of the type cells in the machine, those of each case in the toti, forming the arc or segment of a circle in the manner specified. Second, the means above described, or their equiva-lents, which shall deliver the types from the various cells into the laws of the transits, fixed to a wheel, or other ro-tary motion, for conveying the types from the slides, or their equivalents, to the galley or composing chamber. Third, the combination of the lever, G. head, i, tappets, r, and springs, Y and S, with the lice register, a, and its appurtenances; the lever O, rule or justifier, M, detent, g, and the index, N', and index plate, K', whereby the op-erator is enabled, simply by touching the keys, to do the entire business of composing types, and without a transfer of each line separately.

ELASTIC DIAPHRAGM STEAM PRESSURE REGULATOR -Joseph Woodruff, of Rahway, N. J.: I do not claim the onvex orcup edged piston as it may have been used convey before

But I claim the chains, H, as arranged in relation to the cupped edge or convex surface of the piston, for controll-ing and guiding the piston, and keeping it in its central position, without coming in contact with any substance to cause friction, when operated upon by the diaphragm, as set forth.

WRIFFLE TREES-Geo. H. Yard. of Trenton, N. J.: 1 claim the traversing slide, I. provided with a point fitted to the hole in the hook. G. in crombination with a sliding pin. L. to fasten it, when the end of the slide is put into the hook to fasten the end of the trace on to the hook, substantially as described.

The Patent Office once more-Defence of the Secretary of the Interior.

MESSRS. EDITORS-Under the head of "Encroachments on the Patent Office," its best friend, the Secretary of the Interior, is, to say the least, unfairly assailed, though the zeal of the writer, it is admitted, had some apparent reason in rumors "fast and thick" concerning the appropriation of a few rooms for the preservation of important records, which could no where else be preserved, and which only were taken upon the fullest consultation with the friends and acting head of the Patent Office, the President himself exercising a personal and supervisory interest. I receive and read your valuable journal regularly-amaninventor-therefore justice to the cause you ad vocate induces me to request the insertion of the following: The Patent Office is not the property of inventors exclusively, but very largely the reverse-see the Secretary of the Interior's Report for 1853, as follows : "The amount thus far expended and appropriated (for building the Patent Office) is \$1,367,750, of which \$1,048,750 has been paid out of the Treasury, and only \$319,000 out of the Patent Fund." Besides this, near \$300,000, it is believed, has been further appropriated out of the Treasury, and that by the sanction of the present head of the Interior, towards the further construction of the building. Therefore, should any man, having the best interests of science and the promotion of the useful arts at heart, find fault? It is time enough when the least retardation of our business occurs. So far, this has not been the case in the slightest degree. I have conversed with the Examiners ; they say, and I know it to be so, that neither their rooms nor their duties have been at all affected, whilst the models, model rooms, in short, everything pertaining to, and touching the interests of the inventors, remain intact, and this in accordance with the personal feelings and expressed wishes of the Secretary, as a further illustration of which, his Reports for 1853 and 1854 will amply vouch, and those who know anything about it, will say that nothing but urgent necessity would have caused him to have secured the small room occupied by the Indian Bureau, unless for the safe keeping of its archives, which contain evidences which but the largest merchant-steamers in the world. too many would rejoice to see obliterated. In They will be about 5,000 tuns burthen each, conclusion, permit me to say that the ideasuggested in one of your late No's. of an independent Bureau of Patents, is worthy of consideration, and sound reasons why may form the basis of another communication. JUSTITIA.

Reply. The above is a very lame defence of the Secretary of the Interior; but we have no doubt that it is the best and only one that can be conjured together. He says that the Patent Office building does not belong either to inventors or to the Patent Office Department, because Congress ordered its erection and the people paid for it; ergo, the Secretary has the right to turn the Patent Office out of doors, break up its business, suspend its operations, and cut the whole concern adrift; and he will do it, no doubt, if allowed to keep on much longer at the rate he is going.

How absurd the reasoning looks when applied, as it may be with equal justice, to any of the other Departments. There are the Treasury and State Offices, for example, noble buildings, built by order of Congress, and paid

Third, I claim so arranging the gutter wheel by means of an angular axle, that the lowest portion of the tire, and the lower portion only, will come in contact with the curb stones, substantially as described. cy of their respective buildings than has the dia trade, and has not had the slightest repairs Patent Office Department to the structure specially set apart for it. The Secretary of the Interior would not dare to molest, or even suggest to the heads of either of the Departments first-named, that they had no right to occupy the rooms ordered for them by Congress. Yet why not experiment on them as well as on the Patent Office?

> The Secretary of the Interior, it is claimed. recommended an appropriation for the further extension of the Patent Office; this is presented as evidence that he is the "best friend" of the Department and inventors, not their enemy, as charged by the SCIENTIFIC AMERICAN. What a noble and generous act, truly, for the Secretary to recommend an enlargement of the Patent Office-and then take possession of it himself! What a benevolent and self-sacrificing individual he is, to be sure !

> We have all along insisted, as our readers well know, that various acts of the Secretary relative to the Patent Office, of which we have complained, would, necessarily, have the effect to retard and confuse the operations of the Department. We have charged him with utter incompetency so far as related to its management; and we have called upon the President to take the reins out of his hands and appoint a new, vigorous Commissioner. Our friend "Justitia" tbinks it will be time enough for us to complain when the least retardation of business occurs. "So far," he says, " this has not been the case in the slightest degree."

> We are surprised that the Secretary should permit any of his friends to promulgate such a glaring untruth as the above. Let any one look at the scanty list of patents which appear in our this week's journal, and see for himself what an alarming falling off in the business of the Patent Office has taken place. Let him look back for the past two months, and he will see that this decline has a steady downward progress. Three months have barely elapsed since Commissioner Mason retired, and Secretary McClelland assumed the dictatorship of the Patent Office, yet within this brief space of time, the amount of business performed in the establishment has fallen off nearly fifty per cent.; new business has, all the while, been pouring in with undiminished volume, but receives only partial attention; new applicants are subjected, in many cases, to outrageous delays; unfinished affairs remain in statu quo; the concern appears to be fast choking up, and has, apparently, almost come to a stand-still. These facts speak out in thunder tones of condemnation against the Secretary of the Interior. They establish, alas! too fully, the correctness of our assumptions. With such evidences staring him in the face, "Justitia" will find a fruitless task in apologizing for his" best friend" of the Patent Office.

Great Ocean Steamers

The Persia steamship belonging to the Cunard line, recently launched at Glasgow; the Adriatic belonging to the Collins line, and the New York, belonging to C. Vanderbilt, now building in this city, will be, when completed, and will afford ample opportunity for proving the quality of each in the contest for the mastery of the Atlantic. The hull of the Persia is of iron, and her engines are to be the side lever kind. The Adriatic and New York are being built of timber. The former is to have large oscillating engines, the latter beam engines. The keel of the New York is straight, and so are all her water lines, and her center of displacement is amidships; the Adriatic has hollow water lines, and has her center of displacemore capacity for cargo. It is believed that the Adriatic has the finest formed hull for speed, and that it will be the fastest steamer afloat. Time, however, will try them all; their comparative performances will be of great importance to the commercial and engineering classes of all countries.

Durability of Iron Ships.

huilt 12 years ago, at Liverpool, will repay a ments.

done to her: has never made a drop of water. and will, to all appearance, last for an unlimited length of time. This vessel has completely set aside the old notion of A 1. for 12 years. - Liverpool Mail.

Military Literature-America Ahead.

The following clever extract is from the London Atheneum :--- "American papers are remarking on the absence of all literary effort in the Crimea, and arethereinnoting-very much to their own glory—a characteristic difference between the surroundings of an American and of an English army. The contrast is fair .---The self-laudation is not unjust. Onr readers know that when the Yankees marched into Mexico they carried with them a printing press, and published a newspaper along the line of invasion. Across prairies, through dangerous passes, over mountain ranges, sometimes on mules, oftener on men's shoulders, occasionally in wagons-traveled press, paper, type and ink-editors, contributors, and pressmenfighting, foraging, writing, working onward. Infinite were the uses of the press. It carried orders through the camp. Every morning the soldier read in it the story of the previous day. It anticipated the gazettes. It disseminated orders of the day; it perpetuated the gossip of the camp; reflected public opinion in the army; made known every want; supplied every information; exercised, inspired, and animated every heart. Had the Americans been in the Crimea, they would have had daily papers at Balaklava, Eupatoria, Yenikale, and Constantinople; and these papers reflecting the humors, incidents, and life of the camp-would have ranked among the best historical documents on the war. As it is, our soldiers in the Crimes are indebted to the London journals for authentic information of what occurs in the camp itself, and within a mile or two of their own tents. Jonathan is far ahead of us in some respects."

Benefits of the New Steamboat Law.

The "New Steamboat Law" works well on the Western rivers, as is seen in the great diminution of the number of fatal disasters. The inspectors at New Orleans report, that during the year ending September 1st, the number of boats subject to their inspection have carried six hundred thousand passengers; yet there has not been an explosion of a boiler or collapse of a flue, nor have any lives been lost on passenger boats from the effects of steam or collisions. The report at Cincinnati is almost, if not quite as favorable.

The steamboats on our Westernrivers, which before he new law went into force, were justly considered no better than floating magazines of destruction, have become as safe and well managed as any steamboats in the world. We challenge the steamboat records of any other part of our country, or any other country, to show such an immunity from accident, such safety of life, as the report of the inspectors on the Ohio and Mississippi rivers for last year. Three years ago the public were horrified almost every week with the terrible details of Western steamboat explosions; now 600,000 passengers have been carried during the past year without the loss of a single life; what a happy change. The inspectors deserve great praise for the manner in which they have performed their duties, and we hope they will never cease to be vigilant, strict, and fearless in enforcing the law.

Lanterns for Lighthouses.

The Philadelphia Ledger states that Messrs. Merrick & Son, of that city, are now making three great lanterns for lighthouses on the coast of Florida. The largest-12 feet in diment 20 feet abaft midships. The former is ameter by 10 feet in hight, is intended for the built much stronger than the latter, and has lighthouse on point Jupiter. This lantern is of iron, and is to contain the purestplateglass. It will contain a Fresnel light of the first magnitude. A second lantern is for the lighthouse on Cape Florida, and will contain a Fresnel light of the second magnitude. This lantern is 10 feet in diameter by 8 1-2 feet high. The third is designed for the iron lighthouse on Coffin's Patches. The foundry of Messrs. M. at this time presents a busy scene, there being The iron ship Richard Cobden, which was 470 workmen engaged in its several depart-

- SCREEK