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Reported Officially for the Scientific American

LIST OF PATENT CLAIMS Issued Nom the United States Patent Office

FOR THE WEEK ENDING JUNE 7, 1853.

FOR THE WEEK RADING JUNE 7, 1853. CONVERTING ROTARY INTO RECIPROCATING MO-TION-By Henry Baker, of Catskill, N. Y.: I claim the ring, with its sliding pins attached to the object to which reciprocating motion is to be given, in combination with the stud, or its equivalent, attach-ed to the endless chain, the points or ends of the said pin being caused to project through to the in-terior of the ring, to catch the stud or equivalent, and being withdrawn alternately, to allow it to pass, by springs, levers, and stops, as described.

[See description of this invention on page 316, Vol. 7, Sci. Am]

WASHING MACHINES-By T. A. Dugdale, of Rich-mond, Ltd : I claim combining the wash boards, cords, and floats, as described.

cords, and floats, as described. PROPELLERS—By Henry W. Hewet, of New York City: I claim giving to the paddles, in their circuit, a greater longitudinal than vertical motion, impart-ed by a crank motion, as specified, in combination with the vibratory motion of a beam or beams, de-rived from the same crank motion, for the purpose sepecified. Also, in the combination above specified, making the beam or beams, slide on the fulcrum or fulcra, as specified, by means of which additional element, in the combination, I am enabled to impart to the pad-le or paddles, the back motion, in the direction of the propelling action, more than the lower half of the crank motion, as set forth. Courson to same the table of the trank would be the same the same the course trank motion as the trank would be the trank the the same the course trank motion as the trank the same the the the trank the the the trank motion as the trank the the same the the trank motion as the trank motion.

COMPOSITIONS FOR TREATING WOOL-By Wm.S. Hubbell & Amos Barrett, of Kingsville, Ohio: We claim treating wool with a composition of oil and alcohol, to prepare and fit it for the several manu-facturing operations, for which oil has been and is now employed.

(See description of this invention on page 65, Vol. S, Sci. Am)

DOOR FASTENER-By S. P. Kittle, of Buffalo. N. Y. : I claim the construction of the bar, having the edges, with the .4op or rest having the lips construc-ted and arranged as described. Also, the combination of the cap with the bar, the effect of the cap being to fill up the space between the edge of the door, when closed, and the caving, as described, all for the purpose and manner as set forth

BOILERS FOR COOKING STOVES-By R. W. Bel-son, of Philadelphia, Pa.: I claim the employment of a valve, in combination with the escape tube of culinary boilers, such valve heing controlled by the cover, or in any equivalent mauner, as set forth.

cover. or in any equivalent mauner, as set forth. KNOR BOTES-By Oliver Ellsworth, a Jurtford, Cann.: I clana. diret. the "Prevente in the due to the tumbler of the lock, for the purpose or prevent-ing the boil being forced inward, by means of any instrument from without, as described. Second, I claim, in combination with the pin and spring, the oblique sides or angles, cavity or open-ing, made in the side of the case of the lock, for the purpose of converting my lock into a latch, or restoring the connectian between the outer knob and spindle, by means of the rod pin coming in con-tact with the oblique sides, when the inside knob is turned, thereby turning the spindle and causing the rod pin to be moved out, by revision of the fiction of said rod pin upon the sides of said cavity, as set torth.

Torth. Third, I claim the introduction of a key through a door knob. for the purpose of turning the spindle of the lock, thereby causing a lock to be converted into a lock (from the outside) as described. Fourth, I claim the thumb pin or disconnecting pin, which passes through the outside knob, and into the spindle, thereby forming a connection with the rod. for the purpose of converting the latch into a latch at pleasure, from the outside of is door, asset forth. forth.

QUARTZ PULVERIZER AND GOLD AMALGAMATOR —P. G. Gardiner, of New York City 1 claim the arrangement of the vibrating, pulverizing basin and amalgamating basin attached thereto, with the screen interposed between the two, said basins be-ing converted to the same shaft, and constructed and operating as described. (This is bulkness to be same the two.

(This is believed to be a very valuable invention Patents have been taken in foreign countries through our Agency)

WATER CLOSETS-By Herman Goldsmith, Jr., of New York City: I claim the annular water chem-ber at the upper part of the closet, with a valve so arranged as to open when the pan or basin closes, and allow a requisite quantity of water to pass around the sides of the pan or basin, and between the sides of the pan or basin, and the flange of the orifice, thus hermetically sealing the orifice, and preventing the escape of effluvia, said valve also closing, when the pan or basin is opened, and thus preventing the escape of water from the chamber, the value being constructed of a sphere or ball, working over a circular opening in the bottom of the water chamber, or constructed in any other manner. I do not claim the water chamber independent of its valve, to operate as stated. ty of water to mass

Scientific American.

(We recommend this invention to the considera--ion it is a humane inven tion of our ferry companies, it is a humane invention, and one that should be introduced on every ferry route.)

SCREW PRESSES FOR PACKING BOXES-By Geo. W. Wight, of New York City : I claim bending the upperportion of the arms or levers from a vertical position. and tending towards each other until they reach and are joined to a cross piece or yoke, by joints, at any desired point between the centre of said yoke and the vertical portions of the uprights, thereby giving an oblique or inward direction to the hooks when the yoke is caused to rise, by the opera-tion of a vertical screw. (See description of this invantion on negal 16

(See description of this invention on page 116 Vol. 8, Eci. Am.)

BORING ROCK-By Ebenezer Talbot, of Windsor, Ct : I claim the method, as described, of applying a rollet cutter or cutters, for boring or ercavating tunnels and other apertures in rocks or other hard substances, by causing the said rollet cutter or cut-ters, or rets of rollet cutters, to cut segments of cir-cles from the centre, or near the centre, to the pe-riphery of the tunnel, or other excavation, with the concavity towards the machine, in combination with a motion or motions around the centre of said tun-nel, to cause the said cutter or cutters to act in suc-cession, on the entire surface to be cut away, as on the entire surface to be cut away, ession. described.

ARTIFICIAL STONE—By Julius Hornig & Ludwig Suess, of Union Hill. N. J.: We claim the mode or process of forming artificial stone as described, that is to say, we claim the employment of silex, alumi-na, and salt, mixed and treated as set forth. and in the proportions, designated in the manufacture of artificial stone, meaning by salt the chloride of so-dium, or its equivalent, as set forth.

PAPER FILES—By II L. Smith, of Cleveland, O., (assignor to H. L. Smith, of Cleveland, O., and Levi Butties & H. A. Swift, of Ravena, O.): I claim the paper file described, with prepared adhesive leaves or margins, as a new article of manufacture.

paper interestitute, with prepared additional terms or margins, as a new article of manufacture. POMPS-By L. P. & Wm. F. Dodge, of Newburg, N. Y.: We claim the combination of the cylindrical piston, constructed as described, with its valves and the induction and eduction passages, so that the wa-ter, all entering said cylinder, under pressure, alter-nately, altis ends, and being discharged under pres-sure, through the opening or openings, at its side. We alse claim the combination of the piston heads without the cylinder, with their valves, and the in-duction and eduction passages, when these valves are united (to insure simultaneous action), as de-scribed. the water entering through the piston heads, into the space between the same, and being dischar-el therefrom, through a lateral eduction orifice, the whole being arranged as described, thus dispensing with chambers and partitions, in the barrel and valves at the eduction port, preventing leakage, and rendering the pump or engine, more simple and ef-fective, and less liable to darangement (See notice of this invention on page 3SS Vol. 7,

(See notice of this invention on page 388 Vol. 7. Sci. Am.)

RE-ISSCE.

COOKING RANKEY - By Moses Pond. of Boston

CONSING REAL PARTY - BY Mores Pond. of Hoston. ments by which the hot water back is connected with the plate, and by means of which said hot wa-ter back may be either readily removed, at any time, or applied in such manner that the directions of its water pipes may be disposed, so as to accom-modate the bath boiler, into which they are usually led, on whatever side of the range the said bath boil-er may be placed; the said improvements consist-ing, first, in the connecting piece, and the attach-ments of it, and the hot water back, the whole be-ing made to operate together, as set forth. Second, in a second set of attachments (fixed on which lead the peculiar arrangement of flues, which lead the smoke and volatile products of com-bustion directly around the over, the said arrange-ment of flues causing the heat to course against a portion or one half of the bettom of the oven; next into another flue, which takes it backwards and against the other portion or half of the bottom of through another flue, which carries it backwards and over and against the top of the oven, index and over and against the top of the oven, fance into another flue, which carries it backwards and over and against the top of the oven, fance into another flue, which carries it backwards and over and against the top of the oven, fance into another flue, which carries it backwards and over and against the top of the oven, fance into unclue in such arrangement the radiating chamber or space. I also claim the two recesses and two flue plates applied to another plate, in combination with the two valve openings, their damper and cover plate, as applied to another plate, is combination with the two valve openings, their damper and cover frame, and used under an arrangement of oven frame, in con-nection with the fire place. as stated. I also claim the side of the oven frame, substant tially as described, the same allowing of the adapa-tion of the oven, to either side of the fore place, or the use of

as specified

[NOTE-Seven of the patents embraced in this week's issue were secured through the Scientific

mechanism, as to be operated upon by the boat, as it approaches the bridge, in such a manner, that the boat causes the platform to move inwards and down-wards, when the boat is coming into the slip, and the mechanism, or weights described, or their equi-valents, cause the platform to follow the boat out wards, when the boat is leaving the slip. France to carry on the business, which is expected to be very extensive. For the accommodation of the French tamilies who are expected to be employed in the establishment, about fifty dwellings will be erected by the company. New streets are being laid out around the works.



In the construction of vessels the process of calking the seams so as to exclude the water, forms an important part of the operation. This has heretofore been done by champering the outer edges of the planks, and then driving oakum or other similar material between

them. An objection to this mode of calking is the well-known fact that the working and straining of the vessel has a tendency to throw the oakum out, and render re-calking necessary, while, at the same time, as the planks are not driven so close together, and consequently cannot form a close joint; the hull will be less stiff and rigid than is desirable

The improvements represented in the annexed engravings obviate these objections, and consist in rendering the seams watertight by placing between the edges of the planks some adhesive elastic substance or material, such as india rubber, gutta percha, or compound of both. This may be long by each plank, and placing in the said groove a strip of india rubber, gutta percha or other elastic material, and then driving the planks



closely together, the edges of the planks not being bevelled but square, so that they will form a close rigid joint. If desirable, it may be coated with a rubber cement, or compound.

In the engravings, fig. 1 represents a side elevation of a portion of the hull of the boat and figure 2 a transverse section, representing two methods of introducing the elastic calking above named, a different method being shown upon each side of the boat.

b is are the planks upon one side of the ves sel, and a a those upon the opposite side ; c c

are the joints which are calked by grooves, e, plowed in the edges of the plank, as shown, the fact that dry meters are well known, also the into which the long strip of elastic calking is use of bellows as an attachment thereto; yours is introduced. This strip of calking may be differently arranged from any other known to us, round and tubular, or of any other required but the water meter is superior to any other. If form, so as to fill the channel, which may also be of any shape desired-the planks thus grooved or plowed are then driven together, with a coat or elastic cement between them if it is thought advisable. The calking introduced between the planks, b b, as at f, is of a different form from that at d d in this place the planks are not grooved as in the other instance, but are planed square, and a flat piece of the elastic calking doubled and placed between the edges, thus inlaying all the joints by the elastic material. The edges of this calking may overlap the external corner of the plank, as shown in fig. 2 at f, and connec-

sel, may be calked in the same manner. By the above method of calking a vessel, it will be seen that the necessity for chamfering the edges of the plank is entirely obviated, and by cutting the edges square, and placing between them an adhesive elastic substance, the joint will be impervious to water, and at the same time the hull remain extremely stiff and firm, while the calking cannot be worked out by the straining or working of the vessel, as frequently occurs in the method of calking heretofore practiced. Further information may be obtained by letters addressed to the inventor, B. F. Cooke, or Boston, Mass. Mr. C. has taken the necessary measnres to secure a patent.

By the latest news from Europe, it appears that the celebrated city of Nankin had been captured by a powerful army of revolutionists who will, to all appearances, soon overthrow the present Dynasty.

TO CORRESPONDENTS.

S. B. B., of Vt - The mere application of any well known substance to a new purpose is not patentable, and your invention is simply one of adaptation. E. W. S., of Mass .- The Patent Office Reports for

so many years back could not be obtained for any price.

S. G. C., of Pa.-We do not see the least advantage that you can obtain by using the carbonic acid gas from the fire, mixed with the steam, to operate your engine.

J. H. F., of Vt.-We should be pleased to have you form a club of subscribers for the Scientific American, but we cannot offer you other inducements than those laid down in the prospectus.

P. ----, of Mass -- Yours has been received and will meet with attention.

W. P., of Pa.-Your deductions appear plausable, but they will not account for all the phenomena we observe; how does it account for the various colored grains? have you tried the effect of preventing the pollen from falling upon the staminate at all. Experiments alone will determine the true theory

L. P., of Pa.-Your argument is ingenious, but it is founded upon an erroneous view of the effects of heated air ; we refer you to the views embraced in and ministeriational anenavienter hudge sale mers truth is mighty, and our views will be found to be correct; we are nowise uneasy about the fature, it will, and is, developing the sound doctrines promulgated in the Scientific American respecting Pulley, Static Pressure and Caloric Engines, Water Gas, Fire Annihilators, etc.; we mean to protect our own readers: for them we devote our energies; we are satisfied with our past labors. You find fault with our plainness; we care not for this, we expect it.

S. L. B., of Mich-You are correct, compressed air passing into water will absorb a portion of caloric from the water and render it cool; for an application of this principle see the air-cooling apparatus in No. 38, this Vol. Sci. Am.

S. L. H., of 111 .-- Yours is not "a worthless fancy," as you state, but very ingenious; you must, however, see "House's Telegraph," when you will be convinced that he has produced a machine carrying out the same idea

A. C. S, of N. Y .- Different gases have different specific gravities: air is 0.9038, carbonic acid 1.383 ; air is \$15 times lighter than water ; a cubic foot of carbonic acid gas is therefore 552 times lighter than cubic foot of water, which weighs 625 lbs.

J. B. C., of Ohio-We do net see any chance for you to get a patent on the head rest for cars. The same thing, substantially, has been long known and used. You had better not apply.

A. H., of Pa .- We have examined the sketch of your improved compound car axle, it contains no new or patentable feature, and you are advised to drop it; several pertinent references could be given.

D. P. Z., of Ct.-You do not appear to be aware of

PAINTING ON CLOTH-By Leon Jarosson, of Jer-sey Gity, N. J.: I claim the painting upon cloth previously, prepared with the mordant described, that will combine chemically with colors laid on over the other, and blended by means, substantially as described, by which I give great richness to the furres, which the tint of each is carefully preser-ved, and developing and fixing permanently the co-lors, by steam, and restoring the cloth to its natu-ral pliable state, by wathing out the excess of colo-ring matter, as described

American Patent Agency.

Manufacture of Bohemian Glass.

A French company, of ample means, have purchased a tract of land at a short distance east of the Crystal Lake, near New Rochelle, where they have commenced the erection of a magnificent establishment for carrying on the manufacture of Bohemian Glass Ware .---The "Westchester News" states that the buildings will be of brick and stone, and put up in the most substantial manner. The principal building fronting the turnpike road, will be upward of 300 feet long, and four or five stories high; while in the rear there will be several other buildings of smaller dimen-

ted to the plank upon the outside, or the joints

yours is useful it is patentable, we think.

Money received on account of Patent Office business for the week ending Saturday, June 11 :--

ness for the week ending Saturday, June 11:-J. E. A., of N. Y., \$30; E. P., of III, \$10; S. B. & Co., of Mass. \$25; W. W., of N. Y., \$30; W. S. of Pa, \$35; W. G. M. of N. Y., \$25; S. & K., of Mass., \$30; J. H., of N. H., \$15; V. S. (assignees), Bel-gium, \$342; J. P., of Ky, \$60; A. A. ot N. Y., \$55; W. A. H., of Canada, \$500: J. S. of Va., \$20; J. S B., of Pa., \$50; T. H. T., of N. Y., \$10; J. McG., of O., \$20; G. & B., of N. Y., \$30; A. D. G., of L. I., \$22; C. M., of N. Y., \$50

Specifications and drawings belonging to parties with the following initials have been forwarded to the Patent Office during the week ending Saturday June 11:-

W. C, of Ga; R. S. T. of N C; J H., of N H S. & K., of Mass.; W. G. M., of N. Y; A R., of L I J. E. A., of N. Y.; J. H., Jr., of Wis.; J. T. D., of N. Y.; W. G. M., cf N. Y.