No. 2627. JAMES S. Howe, Santa Cruz, Cal., U. S., 12th August, 1873, for 5 years: "Adjustable Swage for Saw-teeth." (Rainette de scie mobile.)

Claim.—1st. A swage for widening and sharpening saw teeth consisting of the steel bar A, and wooden stock or base B; 2nd. The egg-shaped stock or base B, with its Vshaped recessor groove in combination with the square steel-bar A, and bands or clamps D, D.

No. 2628. EDWARD MYERS, Jersey City, N. Y., U. S., 12th August, 1873, for 15 years: "Rotary (Machine rotatoire.)

Claim.—Ist. The rotating piston G, made with a flanged head and rigidly connected with the shaft; 2nd. The eccentric slotted drum and slotted cylinder or bearing in combination with the shaft B, cylinder A, al, al, and piston G; 3rd. The piston G, made with detached self-adjusting cap, and edge plates kept in place by dowel pins and held out against the inner surfaces of the heads and body of the cylinder by coiled springs inserted in the dowel holes and pressing against the inner ends of the dowel pins.

No. 2629. John C. Hunt, Sioux City, Iowa, U. S., 12th August, 1873, for 5 years: "Apparatus for Steaming and Heating Grain." (Appareil à chauffer et à passer le grain à la vapeur.)

This invention is designed for use in connection with the grind-ing mechanism of a flouring mill for heating or steaming the grain bofore grinding.

before grinding.

*Claim.—Ist. The steam drum C. D. fitted with pipes E. E. perforated throughout a pertion of their length, and furnished with a hopper G: 2nd. The diaphragm b, in confunction with the steam drum, and pipes E, perforated as described; 3rd. The combination of the two steam induction pipes J. K, with the perforated pipes E, E, and the steam drum divided into two compartments; 4th. The cone H, in combination with the pipes E, E, and the hopper G.

No. 2630. HENRY F. WHEELER. Boston, Mass., U. S., 12th August, 1873, for 5 years: "Boot and Shoe Sole Trimming Machine." (Machine à finir les semelles des chaussures.)

and Shoe Sole Trimming Machine." (Machine à finir les semelles des chaussures.)

Claim—1st. The combination of a rotary head or diso, and a transverse carriage with a sliding jack-carrier or their equivalents so arranged that the carrier at times executes a movement independently, and transversely of the dise, for the purpose of operating upon the sides of a sole and at other times revolves in company with said dise when the toe or heel partition of the sole or of the boot is to be operated upon; 2nd. The combination of the rotary dise and transverse carriage, or their equivalents, and a sliding jack, under such an arrangement that the toe or heel portion of the jack shall execute a semi-rotary mevement in the arc of a very small circle about or nearly about the axis of the dise, or support of such jack, by which means the operating tool acts powerfully and perfectly upon the boot; 3rd. The combination of a rotary dise and a transverse carriage or their equivalents, the latter carrying a sliding jack and so constituted and arranged that the jack is fed laterally with a straight, rigid and uniformly stendy, and powerful movement to effect the work upon the idea of the sole in an equally steady, powerful and unyiolding manner, by which a smooth smd perfect surface is effected upon the leather; 4th. The combination of a rotary head or diss, a carriage disposed transversely thereof and a jack applied to such carriage, the arrangement of the whole being such that the carriage at times is stationary and constitutes an immerable and rigid slide or guide upon which the jack slides, and at times constitutes in combination with the disc a point of rotation for said jack; 5th. The employment of the rods p, p, and spring catches C', or their equivalents in combination vith the disc S, carriage U, and jack carrier DI, whereby the carriers of including position while constitution a guide or slide for the jack or its carrier; 5th. The employment of the rods p, p, clutches e, c, and sloping or crowning abutments Bi, or the mec

the disc and the object carried or driven by it may be reversed. 13th In combination with the last above named goars, clutch and lever, the knee shipping lever iv: 14th. In supporting the swaring or vibratory crane or beam D, upon anti-friction rollers; 15th. The combination and arrangement of the goars I, It, and J. shaft or rod K, gears L, and O, shaft M, and goars P, and Q, as a driving mechanism, and a universal joint between the driving shaft F, and disc S; 16th. The employment of a tool-stop carrying two or more tools and so mounted as to be roadily reversed in order to bring either tool into action; 17th. In mounting the tool carrier in the manner shown whoreby it is susceptible of variable motions: 18th. In combination with the various elements of the machine, the shelf or tablet C; 19th. The general arrangement and organization of the various mechanical agents, hereinbefore named, whereby a working machine is produced. a working machine is produced.

o. 2631. ROLLIN R. GREGO, Buffalo, N. Y., U. S., 12th August, 1873, for 5 years: "Pneumatic Railroad." (Chemin de fer pneumatique.)

Claim—lst. A pnoumatic railway tube formed of the longitudinal stringers C, C, with cross ties A, A, and planks b, b, bolted theroto in combination with the circular arched shell composed of the sides d, d, and bands c. e; 2nd In combination with the track, the stringers C, C, forming a continuous guard the entire leacth of the road to prevent the wheels jumping the track; 3rd The inner guard stringers C!, C!, in combination with a pnoumatic railway tube and track; 4th. In combination with a pnoumatic railway tube and track; 4th. In combination with the curved sides d. d. and longitudinal stringers C. C, the inclined water guard J, 5th. In combination with a pneumatic railway tube, a propelling car, a component portion of which forms a diaphraum or piston conforming to the transverse shape of said tube, but sufficiently less in size to ensure its clearing the inner walls thereof at all points, thus leaving a narrow space between the two; 6th. The diaphraum or piston of the draft car formed of the frame K, and the series of segmental sections or valves h, h, h, h; 7th In combination with the segmental sections h, h, auxiliary valves i, i, 8th. The angular ribs, j, in combination with the flat rubber strips l, l, for excluding air from the pneumatic tube when the constraint of the constraint of the preumatic tube when the constraint of the transverse shape of the frame strips l, l, for excluding air from the pneumatic tube when the

No. 2632. CHARLES B. CLARK, Buffalo, N. Y., U. S., 12th August, 1873, for 5 years: "A Blind Hinge." (Une charnière de persienne.)

Relates to the class of hinges which are self-fastening when

Claim.—1st. The incline a, b, and plane d, on the part B. in combination with the double inclines e, f, on the part A: 2nd. The bevel i, on the latch C, in combination with the inclines e, f, and a, b; 3rd A self-locking hinge, the clongated slot f, in combination with the bevelled latch C; 4th. In self-locking hinges the raised head f, f. raised bead r, r.

No. 2633. NATHAN B. ABBOTT, Brooklyn, N. Y., U.S., 12th August, 1873, for 5 years: "Composition pavement." (Pavage en composition.)

Claim.—A surface for pavements and walks composed of a bituminous compound consisting of pitch and crude crossote. in bination with small stones, prepared and land as specified.

No. 2634. JOHN R. CROSS, New York, U.S., 12th August, 1873, for 5 years: "Process of Trans-ferring the Grain Marks of Wood and other Configurations." (Procédé d'imitation du bois et autres objets.)

Claim.—1st. The rollor or curved surface B, with a smooth elastic surface, as a means of transferring configurations or designs when employed in the manner described; 2nd. The process described of transferring configurations or designs.

No. 2635. John N. Wallis & Theodore Wallis, Fleming, N. Y., U. S., 12th August, 1873, for 15 years: "A Coffin." (Un cercueil.)

Claim.—A burial casket, the sides a, a, provided with the vertical flanges d, and clasps e, respectively inter-locking, as des-

No. 2636. John Connor, Philadelphia, Penn., U.S., 12th August, 1873, for 5 years: "Saw Tooth Swage." (Pressea dents de scie.)

Claim.—A saw-tooth-swage, composed of a block A, notched, drilled and slotted and combined with a tapering ferrule B.

No. 2637. BRAY WILKINS, Fairfield, Me., U. S., (Assignee of Joseph L. True.) 12th August, 1873, for 5 years: "A Potatoe Planter." (Traceur-butteur à patates.)

Claim.—1st. The combination of the hopper E, with the bed piece Al, by means of the projections El, and ear pieces d: 2nd. The combination with the rotary dropping plate F, provided with one or more openings K, of one or more openings K, of one or more openings X, of one or more over the control of the co