LEMUEL R. PALMER, Belfast, Me., U. No. 2744. S., 25th September, 1873, for 15 years: Stave Jointer." (Un jointeur de douves.)

Improvement in the class of jointing machines, for varying the curvature of the edge of the staves proportionately to their width, the adjustment of the guides being effected by the width of the

Caim.—The adjustable rail operated by a lover M, and the stave carriage with its bearings C, lover D, and plate W, when combined with a lifting incline r, and a wire or cord for guiding the incline into the plate w.

No. 2745. Peter K. Dederick, Albany, N. Y., U. S., 25th September, 1873, for 5 years: "A Self-dumping Tub." (Une cuvette à bascule.)

Claim.—The latches F. F. connected and secured to the tub A. and adjusted to the bail B. at both sides of the tub.

o. 2746. Francis W. Brown, Cincinnati, Ohio, U. S., 25th September, 1973 for 5 years: "Improvements on Tuckers." (Perfectionnements aux plisseuses.)

The object is to construct a tucker for sewing machines, with suitable devices for folding, holding and guiding the material, so that the tuck or plaits shall be evenly as a smoothly made, of any width and with any distance between, without the use of markers.

width and with any distance between, without the use of markers. Claim.—Ist. The elevated main tucker plate A. with the slot a; 2nd. The adjustable arm C. Cl., combined with the folding hook or gauge H; 3rd. The arm C. Cl., in combination with the main slotted plate A; 4th. The combination of plate A. with the clates B, and C; 5th. The gauges H. and D, arranged upon supporting arms and combined with the main plate A, and made adjustable; 6th. The adjustable supporting plate E, constructed and arranged as set forth.

No. 2747. William Liddell, Reuel H. Thayer & WILLIAM C. RIDDELL, Buffalo, N. Y., U. S., 25th September, 1873, for 10 years: "Machine for Making Paper Bags." (Machine à faire les sacs de papier.)

les sacs de papier.)

Claim.—Ist The combination in a paper bag machine and with a stationary blade or cutter of the roller G, G1, provided with cutters ol, g2; 2nd. A paper bag machine, the combination with the stationary blade K, of t' supporting arm K1, attached thereto so as to permit the passage of the overlapped and unfastened edges of the folded paper tube; 3rd. The combination with the roller F, F1, the former provided with a recess g, of the stationary knife, and arm K, K1, and ledge k1; 4th The combination with the knife and arm K, K1, and roller F, provided with recess g, of the adjustable sorew k; 5th The combination with the pressure rollers q, q, and folding blade p, of the revolving pasting bar S; 6th. The combination with the guide roller b, and curved gauges C, C, of the edge punches E, and guide brackets d2; 7th. The combination of the edge punches, striking arms e e, and rocking shaft e1: 8th The combination with the edge punches, rocking shaft e1: 8th The combination with the outter rollers G, G1, of the elliptical gear wheels L L1, for imparting a variable motion to the cutter rollers; 10th. The combination with the pressure or feeding rollers q, q, and folding blade p1, of the ervolving pasting bar S; 11th. The combination with the shaft P, actuated by the counter shaft O, or its equivalent, of the revolving pasting bar S; 11th. The combination with the shaft P, actuated by the counter shaft O, or its equivalent, of the revolving pasting bar S; 10th. The combination with the shaft P, of the alma paste roller u, pivoted pasting blands P, of the enras e, e, and paste roller u, pivoted pasting blands S, provided with arms e, e, and paste roller u, pivoted pasting blands S, provided with arms e, e, and paste roller u, pivoted pasting blands S, provided with arms e, e, and paste roller u, pivoted pasting blands S, provided with arms e, e, and paste roller u, pivoted pasting blands S, provided with arms e, e, and paste roller u, pivoted pasting blands S, provided with arms e, e, and paste roller

No. 2748. CHARLES W. HEBARD, Rochester, N. Y., U. S., 25th September, 1873, for 5 years: "Manufacture of Pipe." (Fabrication de tuyau.)

Claim—1st. The process of forming a wooden pipe, by a continuous winding of the splints upon a "form" or 're, when said splints pass from a tank of cement, and are coated upon all sides so that in the act of winding they build up the body of the pipe in a continuous body of cement from inside to outside; 2nd. An apparatus for winding wooden spline, to form pipe, the giving to the form or core an alternate reciprocating movement to compensate for the winding, in combination with a stationary position of the splint or pice-cersa; 3rd. In combination with the form or core D, the supporting car frame or block I, 4th. It, combination with the form or core, the presser K; 5th. The combination of the inclined board p, and hinged jaw r; 6th. The teeth or projections q, q, on the board p, and supplementary jaw m, either or both when employed in the manner specified; 7th. In combination with the car or truck E, the swinging goars 7, and 8, with engaging and disengaging pursons 9, and 10, and the changeable pinion 7; 8th. The arrangement, for constructing spirally wound wooden pipe, the form or core consisting either of the segments and wedge bars and key as shown in Figs. 3, and 6, or the hinged staves as shown in 7, 8, and 9, the parts constituting the same being held to the bearing

heads by means of screws or equivalents, and made collapsible in the manner specified; 9th. In combination with the form D1, the standards C2, C2, hinged at one end for operation; 10th. In com-bination with the bearing heads holding the form or core, the ad-iustable directing plates p2, as specified.

No. 2749. JOHN D. LAWLOR, Montreal, Que., 25th September, 1873, for 5 years: "Shuttle Bobbin Winder." (Bobinoir de machine à coudre.)

Claim.—The surfaces p, or q, or both, and spring r, in combination with the bracket d, arranged to hold the shuttle spool n, as

No. 2750. John Bryce, Grand Haven, Mich., U. S., 25th September, 1873. for 5 years: " A Spinning Wheel." (Un rouet.)

Claim.—let. The spindle A. and its friction pulley a, held in contact with the wheel b, by means of a sliding spring bearing; 2nd. The sliding shaft B, with its wheel b, and disk b, combined with the wheel c, and made adjustable by means of the screw ρ ; 3nd. The sliding spindle A, and sliding shaft B, combined with each other by means of the grooved wheel a, and wheel b, working in the groove of the wheel a; 4th. The combination of the hand wheel c, the adjustable shaft B, and the spindle A, held in contact with its driving wheel by the spring c, all supported on a suitable frame and constructed, and operating in the manner seth forth.

JOHN MCPHERSON, Westminster, Ont., 25th September, 1873, for 5 years: "A Secretaire." (Un secrétaire.)

It is so constructed, that it can be put into any ordinary writing desk, bureau or secretaire.

Claim —The arrangement of lever, or arms D, arms I, in combination with front top and lever B, and front cover C; in the application of quadrant E, and latch F.

No. 2752. JEAN E. RICHARD, Columbia, S. C., U. S., 25th September, 1873, for 5 years:
"Belt Fastening." (Joint de courroie.)

"Unim.-The combination of the separable clamp-plates and the core pieces, with the split, cut, or bored belt-ends, as set forth.

No. 2753. ALBERT H. JARECKI & JOHN M. ORMSBEE, Erie, Penn., U. S., 25th September, 1873, for 15 years: "Improved Pipe Tongs." (Tenailles à tuyaux perfectionnées.)

Claim.—Ist. The steel-bar G, pointed and sharpened on both ends, serrated on one face, and operated by the worm-wheel D; 2nd. The combination of the handles A, Al, hook B, enlarged forked, and mortised part C, worm-wheel D, and reversible, and serrated steel-bar G, all constructed and arranged as set forth

No. 2754. WILLIAM COOPER, Ypsilanti, Mich., U. S., 25th September, 1873, for 5 years: "Bucket for Chain Pumps." (Godet de pompe à chapelet.)

Claim.—lat. The elastic disc B, of a chain pump-bucket, provided with a notch c, on its periphery; 2nd. The wheel A, provided with a circumferential groove forming an upper and lower flange and made of one piece of metal, in combination with the elastic collar B, sprung into said groove and the bail C; 3rd. In combination with the above claims, the leather or other material f, inserted in the groove. in the groove.c.

No. 2755. LEVI K. FULLER, Brattleboro, Vt., U. S., 25th September, 1873, for 5 years: "Ventilator and Dust Arrester." (Ventilateur et arrête-poussière.)

Claim —A ventilating apparatus consisting of the chamber A, provided with the induction and eduction orifices a, al. spray wheel c, and one or more partitions B, B, and slides b, b, arranged and operating as specified.

No. 2756. WILLIAM H. SKIDMORE, Philadelphia, Penn., U.S., 25th September, 1873, for 5 years: "Buffer and Coupling Apparatus for Railway and other Carriages." (Appareil de choc et d'attelage de voitures de chemins de fer et autres.)

Claim —Ist The combination of the double hook-automatic coupling, the spring buffers, and the device for disengaging both hooks at once and thereby uncoupling the cars; 2nd. A car provided with both a link and pin coupling and an automate hook coupling, a hooked coupling bar attached to the main draw bar and adapted to be projected beyond the face of the drawhead and locked in that position when the automatic part is to be used, or