

a series of dies, and an ejector for each die, with a fixed rib 4, in contact with which each ejector must traverse, and an adjustable support x , on to which each ejector in succession must fall as the machine operates, substantially as specified. 12th. The combination, in a machine for moulding pulverized or plastic material, of the intermittently-rotated die-holder B and its series of dies, each having an ejector, with the fixed rib 4, and an adjustable support x , having an inclination z , substantially as specified. 13th. The combination, of the intermittently-rotated die holder, of a machine for moulding pulverized or plastic material, its dies and ejectors, and the support x , with a reciprocated rod b , for depressing each ejector in succession, substantially as set forth. 14th. The combination, in a machine for moulding pulverized or plastic material of the following elements, namely: first, an upper reciprocating die; second, an intermittently-rotated die-holder, having a series of lower dies, and an ejector for each die; third, a support and lifter w , forming a foundation for each ejector, in succession, during the descent of the upper die, and for lifting each ejector in succession; fourth, a fixed rib 4, having an inclined plane y , for receiving each lifted ejector in succession falls from the rib 4, substantially as set forth. 15th. The combination of the intermittently-rotated die-holder, of a machine for moulding pulverized or plastic material, and its series of dies and ejectors, with a lubricating-roller 10, substantially as specified. 16th. The combination of the plunger E and the upper die m , with a lubricating roller 12, carried by a vibrating arm 11, substantially as described. 17th. The combination of the intermittently-rotated die-holder B, of a machine for moulding pulverized or plastic material, and its series of dies and ejectors, with the spout 14, and arm 13, projecting from the spout over and above the face of the die-holder, substantially as set forth. 18th. The combination of a die-holder and its dies e , and ejectors D, each ejector having a cylindrical enlargement 15, arranged to slide in and to be guided by the opening of the die-holder, substantially as specified. 19th. The combination of the die-carrier, its dies and ejectors, each of which has at the top a slight enlargement t , presenting a shoulder z , substantially as set forth. 20th. The combination of the die-holder, its dies and ejectors, with a chamber 16, for each die, substantially as specified.

No. 22,238. Handle for Travelling Bags, etc.

(*Poignée de Sac de Nuit, etc.*)

Robert W. Chapman, Newark, N.J., U.S., 13th August, 1885; 5 years.

Claim.—1st. The sheet metal handle, consisting of the upper section formed with central bead a , side beads or seats b, b , downwardly-projecting flanges c, c , and the lower section formed with central bead d and upwardly and outwardly projecting flanges e, e , and the sections being united by bending the upper flanges over the lower, substantially as shown and described. 2nd. The sheet metal handle, consisting of an upper section, formed with tongues f, f , and flanges c, c , enlarged so as to firmly grasp and cover the ends of the lower section, in combination with the lower section, of a sheet metal handle, substantially as herein shown and described. 3rd. The combination, with a sheet metal handle, formed in two sections united by inner and outer flanges, as described, of the leather coverings fitted to the sections separately, and their free edges held in place by the overlapping sections, substantially as herein shown and described.

No. 22,239. Fabric as a Substitute for Leather.

(*Tissu remplaçant le Cuir.*)

George A. Fullerton, Boston, Mass., U.S., 13th August, 1885; 5 years.

Claim.—1st. The fabric above described, consisted of fibres cemented together with glue treated with chrome alum and heat, substantially as described. 2nd. The fabric above described, composed of the fibrous sheet a , having its fibres cemented together, and also cemented to the sheets of cloth b and d , either or both, substantially as described. 3rd. The fabric above described, composed of the fibrous sheet a having its fibres cemented together, and also cemented to the sheets of cloth b and d , either or both, by means of glue treated with chrome alum and heat, substantially as described.

No. 22,240. Salt Drying and Granulating Apparatus.

(*Appareil pour Sécher et Granuler le Sel.*)

Claude Henrie, Bay, Mich., U.S., 13th August, 1885; 5 years.

Claim.—1st. The combination of cylinder D having shell E, spokes G, G, shaft F and one or more rollers S sleeved to the shaft to travel on the inside of the cylinder, whereby the salt is simultaneously dried and crushed, as set forth. 2nd. The combination, with the cylinder D having shell E, spokes G, G, and hollow shaft F, of the steam pipe H, reservoir A and screw conveyor B, whereby the salt is distributed to the conveyor and fed to the cylinder and the cylinder heated by steam, as set forth. 3rd. The hollow roller S, having an internal loose weight T to jar the cylinder, for the purpose set forth.

No. 22,241. Fire-arm.

(*Arme à Feu*)

Joseph D. Lucas and William J. Kriz, St. Louis, Mo., U.S., 13th August, 1885; 5 years

Claim.—1st. A compound gun having two shot barrels and two rifle barrels made of different pieces of metal, the rifle barrel being located directly between the shot barrels, as set forth. 2nd. In a compound gun, the two shot barrels and two rifle barrels made of different pieces of metal, and the rifle barrels located between the shot barrels, in combination with two extractors, substantially as and for the purpose set forth. 3rd. In a compound gun, the two shot barrels and two rifle barrels made of different pieces of metal, and the rifle barrels located between the shot barrels, in combination with the hammer and locking and cocking pin D, operated by a cam rock shaft and lever, substantially as set forth. 4th. In a compound gun, the two shot barrels and the two rifle barrels made of different pieces

of metal, and the rifle barrels located between the shot barrels, in combination with the hammers, and the two movable plates T working side by side in a shot in the frame for holding the hammers cocked and held to their adjustment by springs V, as set forth. 5th. In a fire-arm, a hollow or dovetailed hammer and block N₁, adapted to slide in the hammer, in combination with the upper and lower firing pins, the said block being adapted to strike a firing pin in either its upper or lower position, as set forth. 6th. In a fire-arm, the combination of a hammer, an adjustable block on the hammer, a lever hinged to the frame and connected to the block, the block being adjusted by said lever to place it in position to strike either firing pin, as set forth. 7th. In a fire-arm, the combination of the piece Y with a recess and a notch, and the barrel having a recessed lug to receive a spring bolt having a conical point, the lug adapted to fit in a recess in the piece Y and the conical point of the bolt adapted to fit in the notch in the piece, substantially as set forth. 8th. The combination, with the hollow frame A having the slot U and a pair of hammers contained therein, of the pair of sliding plates T, each having a shank T₁, a head T₂ and a spring V, constructed and arranged to operate substantially as set forth. 9th. The combination, with a gun having a concealed hammer and a plurality of barrels, of a sliding block secured to said hammer and connection projecting within the reach of the operator for moving said sliding block, as and for the purpose set forth. 10th. The combination, with a hammer, of a sliding block secured thereto, and a projection therefrom adapted to be engaged by the thumb of the operator, for moving said block, as set forth. 11th. The combination, with the hammer N having the sliding block N₁, of the bell crank lever O projecting outside of the stock at one end and connected at the other with said sliding block N₁, substantially as set forth. 12th. A fire-arm having two rifle barrels formed from separate pieces of metal and secured directly to each other, and two shot barrels formed from separate pieces of metal and secured to the sides of the rifle barrels, as and for the purpose set forth.

No. 22,242. Spring Bed Bottom.

(*Sommier Elastique.*)

Frederick T. Browning, Orange, N.J., U.S., 13th August 1885; 5 years.

Claim.—1st. The series of longitudinal slats A, A₁, springs C and ties P, in combination with each other and with the jointed arms B, cross-slides D, keepers A₂, top bars E and inclined spring braces F, as herein specified. 2nd. In a spring bed bottom, in combination with the series of longitudinal slats A, conoidal springs C and ties P, the top bars E supported partly by additional springs C and partly by additional springs F, G, all arranged for joint operation as herein specified. 3rd. The diagonal braces H, in combination with the cross slides D, longitudinal slats A, A₁, rivets and keepers A₂ and with the springs C and ties B, adapted to serve as herein specified. 4th. In combination with the longitudinal slats A, A₁, springs C, ties P and jointed arms B, the additional jointed arms I, with knuckles I₁ and hook J adapted to hold the construction firmly in the extended condition, as herein specified. 5th. In combination with the parallel bars A, spring C and ties P, the jointed arms B having an extension B₁, screw K and thumb nut L, arranged to serve in holding the structures in various positions, substantially as herein specified.

No. 22,243. Sash Fastener.

(*Arrête-Croisée.*)

Rebecca G. Bassell (Assignee of John Y. Bassell), Leesburgh, Va., U.S., 13th August, 1885; 5 years.

Claim.—1st. In a sash fastener, and in combination with the recessed sash, a locking dog pivoted to the frame and provided with an interlocking portion, whose bearing surfaces are formed in arcs of circles, of which the pivot is the centre, substantially as described. 2nd. In a sash fastener, and in combination with the sliding sash and the recesses therein, a pivoted locking dog mounted in bearings in the frame, and provided with an arc-shaped engaging portion, whereby the dog can be inserted and withdrawn from the recess in the sash, without moving the latter, substantially as and for the purpose set forth. 3rd. In a sash fastener, and in combination with the window sash and its attached strike plate provided with a shoulder or offset, as described, a pivoted locking dog having the arc-shaped bearing surfaces and the notches near the outer end thereof, substantially as described. 4th. In a sash fastener, and in combination with the window sash, the spring pressed locking dog having an arc-shaped engaging portion, and a pivot concentric therewith, and the operating key or spindle passing through said pivot and engaging a lug or projection therein, substantially as described. 5th. In a sash fastener, and in combination with the locking dog thereof, the actuating spindle provided with a flange or collar at one end and an interlocking stud or projection, and an escutcheon having a notched collar or opening for the reception of the end of the spindle to permit longitudinal movement of the latter and form a bearing therefor, substantially as described. 6th. In a sash fastener, and in combination with the locking dog thereof, and the operating lever, the angular or feathered actuating spindle, and the escutcheon, the latter adapted to form a bearing for the end of the spindle and prevent its withdrawal, substantially as described. 7th. In a sash fastener, and in combination with the pivoted dogs, the operating lever and the escutcheon, the removable actuating spindle adapted to be inserted through the said operating lever and escutcheon, and to be locked in position by a collar or flange on the latter resting between a stud and collar on the end of the said spindle, substantially as described. 8th. In a sash fastener, and in combination with the locking dogs and actuating spindle, the operating lever connected at one end to said spindle, and provided with a sliding portion or extension for engagement with a locking plate, substantially as described. 9th. In a sash fastener and in combination with the actuating spindle and the locking dogs controlled thereby, the operating lever applied to said spindle and provided with a locking device for engagement with a fixed plate or escutcheon, substantially as described. 10th. In a sash fastener, and in combination with the actuating spindle and the locking dogs controlled thereby, the operating lever applied to said spindle and carrying the outer sliding section provided with wings or projections