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INVENTIONS PATENTED.

NOTE—Patents are granted for 15 years. The term of years for which the fee has been paid, is given after the date of the patent.

No. 31,844. Manufacture of Material for Roofing and other purposes and Composition therefor. (*Fabrication de matériel à toiture et autres fins et composition pour cet objet.*)

The New Wire Wove Roofing Company, (assignee of Alfred N. Ford,) London, Eng., 1st August, 1889; 5 years.

Claim.—1st. A composition formed by the admixture of stearine-pitch, oil, soap, and petroleum oil, in about the proportions and for the purposes above set forth. 2nd. The manufacture of materials for the purposes stated by coating wire netting, and a suitable fabric, or a fabric alone with the above-named composition, substantially as described.

No. 31,845. Nut Machine. (*Machine à écrou.*)

George Dunham, (assignee of George M. Dunham), Unionville, Conn., U.S., 1st August, 1889; 5 years.

Claim.—1st. In a nut machine, the combination of a carrier having two recesses serving as partial dies, a stationary shear blade and a blanking out punch, substantially as described and for the purpose specified. 2nd. The combination of a carrier having two recesses, and a trimming punch and die, substantially as described and for the purpose specified. 3rd. The combination of a carrier having two recesses, and a blanking out punch and trimming die and punch, substantially as described and for the purpose specified. 4th. The combination of a carrier having two recesses, a swaging die and knock-out pin, substantially as described and for the purpose specified. 5th. The combination of blanking and trimming dies, a carrier having two recesses for receiving the nut blanks, and mechanism for locking the carrier during the action of the dies, substantially as described and for the purpose specified. 6th. The combination of a central blanking out shear, and two trimming punches arranged one on each side of said blanking shear, substantially as described and for the purpose specified. 7th. The combination of a swage or crowning die and two trimming dies arranged one on each side of said crowning die, substantially as described and for the purpose specified. 8th. The combination of a swage and knock-out pin and two trimming dies, one on each side of said swage, substantially as described and for the purpose specified. 9th. The combination of a punch and die for punching the central hole, a blanking out shear and die, a swage and knock-out pin, two trimming punches and dies, said trimming punches and dies located one on each side of said blanking-out shear, substantially as described and for the purpose specified. 10th. The combination of the slide H, bearing punches, the stationary dies and shear, the carrier having two recesses which serve as partial dies, and operating mechanism for said slide and carrier, whereby the slide has two motions to one of the carrier, substantially as described and for the purpose specified. 11th. The combination of a crowning die, a trimming die, a blanking punch and a carrier moving transversely to the movement of said blanking punch, and having a recess which serves the double function of blanking die in connection with said blanking punch, and pocket for carrying the blank, substantially as described and for the purpose specified.

No. 31,846. Binding Mechanism for Harvester Binder. (*Mécanisme de liage de moissonneuse-lieuse.*)

William D. Best and Peter Hamilton, Peterborough, Ont., 1st August, 1889; 5 years.

Claim.—1st. The shaft D suitably journaled in bearings attached to the frame of the machine, and provided with bevel pinions F and G, arranged to form a connection between the packer and knottershafts, substantially as and for the purpose specified. 2nd. The trip

M pivoted upon the needle shaft L in proximity to the needle N, and provided with a tail m, in combination with an adjustable dog O, arranged substantially as and for the purpose specified. 3rd. The combination, with the compressor-shaft P, of a finger G, arranged substantially as and for the purpose specified. 4th. The spring bolt R, in combination with the cam-shaped projection S formed on the gear wheel C, substantially as and for the purpose specified.

No. 31,847. Stop-Motion for Looms.

(*Mécanisme casse-mèche pour métiers.*)

William Taylor, Lawrence, (co-inventor with Christian G. Saalfrank, Worcester), Mass., U.S., 1st August, 1889; 5 years.

Claim.—1st. The combination as hereinbefore set forth, with a swinging locking-dog and a detector-fork mounted thereon, of a cam for elevating the fork to its highest position, the said cam provided with means for engaging the locking-dog when the fork detects the absence of the weft, the shipper-bar and the stop-motion rod provided with a spring and intermediate the said bar and cam, whereby the shipper-bar may be moved by the rod upon the locking of the cam by the locking-dog, substantially as and for the purpose herein described. 2nd. The combination as hereinbefore set forth, with the delay, of the swinging locking-dog and the detector-fork mounted thereon, a cam for moving the dog so as to elevate the fork into its highest position, and provided with a projection for engaging the dog, whereby the dog may lock the cam, a shipper-bar for effecting the shipping of the belt, and a stop motion rod hinged to and operating the cam and engaging the shipper-bar when the cam is locked by the dog, a spring mounted on said rod to resist the motion imparted to the rod by the movement of the lay, substantially as and for the purpose herein described. 3rd. The combination as hereinbefore set forth, with the lay, of the swinging locking-dog and the detector-fork mounted thereon, a cam for raising the dog and provided with a projection for engaging the dog, whereby the latter may lock the cam, a shipper-bar and a stop-motion rod hinged by one end to the said cam for operating the latter, and engaging by the other end the shipper-bar, a fixed slotted bracket through the slot of which the other end of the said rod takes the rod being provided with a spring to resist the motion imparted to the rod by the movement of the lay, substantially as and for the purpose herein described. 4th. The combination as hereinbefore set forth, with the lay formed with a slot to receive the detector-fork, of a swinging locking-dog and the detector-fork mounted thereon and appropriate to engage the weft, the cam for raising the dog and provided with a projection or shoulder by means of which the dog may lock the cam, a shipper-rod provided with a stop, a stop-motion rod hinged by one end to the cam, and engaging by the other end the stop on the shipper-bar, a slotted bracket fixed to a stationary part of the loom, and the end of the stop-motion rod loosely passing through the slot of the bracket, a slide or washer working on the rod and abutting against the bracket, a stop also fixed to the rod and a spring intermediate the stop and the slide on the rod, substantially as and for the purpose herein described. 5th. The combination as hereinbefore set forth, with the lay of a loom, of the swinging locking-dog 8 provided with the detector-fork 12, the cam 15 provided with the projection 19 which is engaged by the dog, the stop-motion rod 20 hinged to the cam 15, and the slotted bracket 22 for receiving the end of the rod 20, the spring 25 mounted on the rod 20, the reciprocating shipper-bar 28 engaged by the rod 20, substantially as and for the purpose herein described. 6th. The combination as hereinbefore set forth, with the lay of a loom provided with the slot 33, of the swinging locking-dog 8 provided with the detector-fork 12 and mounted on the lay, the cam 15 provided with the projection 19, the stop-motion rod 20 having the enlarged end 24, and the spring 25, the stop 26 and the slide 27 mounted on the rod, the bracket 22 formed with the slot 23, the shipper-bar 28 provided with the adjustable stop 31, substantially as and for the purpose herein described.

No. 31,848. Combined Pipe Coupling and Check Valve or Chamber. (*Joint de tuyau et soupape d'arrêt ou coffre combinés.*)

George D. Wildes, Ipswich, (assignee of William T. Messenger, Boston), Mass., U.S., 1st August, 1889; 5 years.

Claim.—1st. The combination of a pair of coupling-pieces and a co-operating coupling-nut, with an independent chamber enclosed