

No. 50,134. Cranes, Mortar Mills and Similar Apparatus. (Grue, moulin à mortier, etc.)

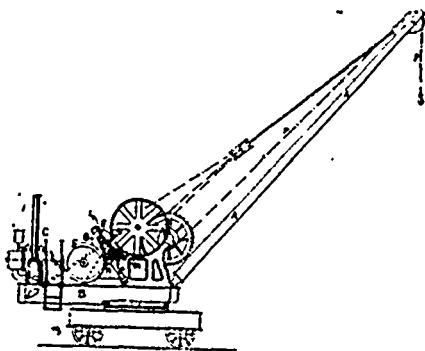


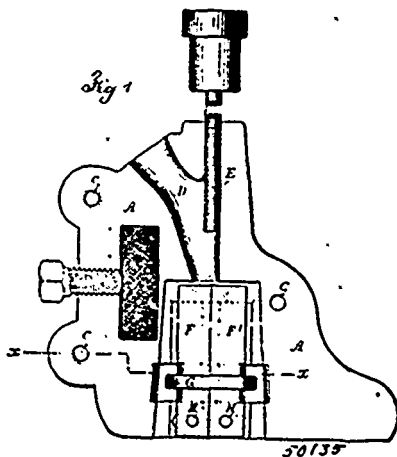
FIG. 1. 50134

Thomas Whitaker, Horsforth, York, England, 2nd October, 1895; 6 years.

Claim.—1st. The combination, with the crane A, provided with a friction wheel D, of the oil engine B attached thereto provided with a friction wheel E, the sliding frame F, and two sets of friction wheels G, H and H', interposed between the friction wheels D and E, and capable of being moved into and out of gear therewith, substantially as described. 2nd. A friction gearing for cranes, excavating apparatus and other machines comprising in its construction a sliding frame carrying friction wheels, two sets of friction wheels pivoted to the said frame, and pins upon which the friction wheels rotate, substantially as described. 3rd. The combination, with a crane A, and an oil engine B attached thereto, in substitution of a steam generator and cylinder and provided with friction wheels D and E respectively, of a movable frame F, two sets of friction wheels G, H and H' connected thereto by adjustable bearings, the spindles *g* and *h*, and the adjustable bearings K, the frame F capable of being moved to bring either set of the friction wheels into gear with those on the oil engine and frame, substantially as described.

No. 50,135. Box for Nail Driving Machines.

(Boîte pour machines à chasser le clou.)



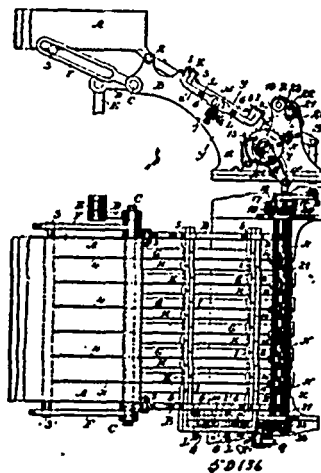
50135

John Joseph Hayes, Flushing, New York, U.S.A., 2nd October, 1895; 6 years.

Claim.—1st. The combination with the plunger in a nail driving machine, of two-part dies adapted to receive the nail between them, supports for holding such dies and in which they are free to remain in the position to which they are moved by the punch, and a continuous elastic contractile band acting only to draw the dies towards each other, substantially as set forth. 2nd. In a nail-driving mechanism, the combination with the dies recessed for the reception of the nail and the plunger acting upon such nail, of a contractile rubber band surrounding the dies and acting to draw them towards each other, pins upon the dies, and a supporting box for the dies having slots for the pins and recessed for the reception of the dies and the contractile band, substantially as set forth.

No. 50,136. Feeder for Nailing Machines.

(Alimentateur pour machines à chasser de clou.)



50136

John Joseph Hayes, Flushing, New York, U.S.A., 2nd October 1895; 6 years.

Claim.—1st. The combination in a nail-feeding mechanism, of inclined bars in pairs, sets of crossing bars connecting the respective inclined bars together in two sets, end bars connecting the crossing bars, and mechanism acting between the end bars equally in both directions for adjusting the inclined bars to vary the width of the channel between such inclined bars by one adjustment so as not to change the relation of the nail channels to the other mechanism, substantially as set forth. 2nd. The combination in a nail-feeding mechanism, of the inclined bars G and H, the crossing bars I connected to the bars G, the crossing bars K connected to the bars H, the end bars L' connecting the cross bars I, the end bar K' connecting the cross bars K, a shaft with equal cam projections on each side to adjust the inclined bars and vary the width of the nail channels, and springs for pressing the parts towards the cam projections, substantially as set forth. 3rd. The combination in a nail-feeding mechanism, of inclined bars in pairs with the channels or raceways for the nails between them, a shaft passing across at right angles to the channels and having a screw-threaded groove for each channel and coinciding with the same, means for rotating such shaft progressively to carry the nails laterally from the lower ends of the respective channels and drop the same so as to be conveyed to the nail-driving mechanism, substantially as set forth. 4th. The combination in a nail-feeding mechanism, of inclined bars in pairs with the channels or raceways for the nails between them, a shaft at right angles to the channels, screw-thread grooves coinciding with the channels between the pairs of bars, a pinion, gear wheel, ratchet wheel and pawl and means for moving the pawl to give to the screw shaft a rotation for carrying the nails laterally away from the channels and dropping the same, substantially as set forth. 5th. In a nail-feeding mechanism the combination with inclined bars forming channels or raceways for the nails and a shaft at right angles to the channels and screw-thread grooves on such shaft for moving the nails laterally from the lower ends of the raceways and dropping the same, of fingers, collars and a shaft for supporting the fingers, clamping screws for holding the collars and fingers upon the shaft, and mechanism for partly turning the shaft periodically to move the fingers and allow the nails to slide down into the nail-delivering mechanism, substantially as set forth. 6th. In a nail-feeding mechanism the combination with the inclined bars forming channels or raceways for the nails and a shaft at right angles to such channels and screw-thread grooves for receiving the nails from the lower ends of the raceways and moving the same laterally for dropping them, of fingers, collars and a shaft for supporting the fingers, clamp screws for holding the collars and fingers upon the shaft, a shaft and toes for giving motion to the fingers, and mechanism for rotating the shaft progressively to bring the fingers into action every desired number of strokes of the nail-driving mechanism, substantially as set forth. 7th. The combination in a nail-feeding mechanism, of inclined bars that are L-shaped in section and set together in pairs to form between them the nail channels for suspending the nails by their heads and guiding the same vertically, a shaft at the lower ends of the inclined bars and at right angles to the same, screw-thread grooves for receiving the nails and means for rotating the shaft and screw-thread grooves that carry the nails away laterally from the inclined bars and dropping the same, substantially as set forth. 8th. The combination with the inclined bars having channels between them for the nails, of a shaft at the lower ends of the inclined bars and at right angles to the same, screw-thread grooves upon such shaft for the reception of the nails, means for rotating the shaft and screw threads to carry the nails laterally from the