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INVENTIONS PATENTED.

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

No. 22,326. Self-Binding Harvester. (Moissonneuse-engerbeuse.)

John C. McLachlan, London, Ont., 1st September, 1885; 5 years.

Claim.—1st. The gear-segment A, pinion D, shaft E, having bearing F, ratchet H and lever J, substantially as shown and described and for the purpose specified. 2nd. The combination of segment A and tongue B, pivoted to sill by stud a cast on plate p, forming a bearing used as a fulcrum for operation of pinion D and segment A, substantially as and for the purpose specified. 3rd. The iron trusses K, K attached to sills of self-binding harvester and carrying the cross bar and sides of elevator and binder, substantially as shown and specified.

No. 22,327. Locking Gear for Windlasses. (Fermeture de Grindeaux.)

The American Ship Windlass Company (Assignees of Francis A. Grater), Providence, R.I., U.S., 1st September, 1885; 5 years.

Claim.—1st. In a windlass, the combination with a wild-cat loosely mounted on the main or driving shaft, of a driving head rigidly secured to the shaft and having one or more locking-blocks, each connected by a suitable link with a screw-headed key arranged in the hub of the driving-head, said keys engaging with an annular nut mounted upon said hub and provided with means for operating the same, whereby the axial movement of the nut causes the locking-blocks to move in an outward or radial direction, substantially as shown and for the purpose set forth. 2nd. The combination, with a wild-cat mounted on the driving shaft, of the locking device herein described, consisting of one or more locking-blocks D, screw-threaded keys F, links M connecting said blocks, and nut R, having handles r and sockets r¹ therein, said nut engaging with the keys H and mounted on the hub of the driving-head between suitable thrust-collars, said device being mounted within the driving-head of the windlass, all substantially as shown and for the purpose set forth. 3rd. In a windlass, having a wild-cat loosely mounted on the driving shaft, and a driving-head secured to said shaft, the combination therewith, of one or more locking blocks and screw-threaded keys, mounted within the head, said keys being connected with the locking blocks and provided with a suitably arranged nut for operating the same, substantially as shown and described. 4th. The locking device herein described, consisting of one or more locking-blocks D, screw-threaded keys H, links M connecting said blocks and keys, and nut R engaging the keys H, the whole combined and arranged within the driving head of a windlass, whereby said nut in its axial movement is adapted to slide the blocks D, in an outward or radial direction, as and for the purpose set forth. 5th. The locking device herein described, consisting of one or more locking blocks D, screw-threaded keys h, links M and nut R, the whole combined and arranged within the driving head of a windlass, whereby said nut in its axial movement causes the block D to slide in an outward or radial direction for the purpose of interlocking with the pockets a of the loosely mounted wild-cat A, substantially as shown and set forth.

No. 22,328. Burglar Proof Sash Lock and Automatic Window Holder. (Fermeture de Châssis.)

J. Richard Clancy (Assignee of August Liesche, Syracuse, N. Y., U.S., 1st September, 1885; 5 years.

Claim.—1st. An automatic burglar proof sash lock, which fastens the window when closed by means of cam-acting holder B, rotating upon a pivot screw G, with appliances for attaching the same, constructed substantially as shown for the purposes specified. 2nd. An automatic window holder B, with a rubber engaging surface G, pivoted upon base A, with appliances for attaching the same, constructed substantially as shown for the purposes specified. 3rd. A sash holder, consisting of base A, cam-acting, rubber-faced holder B, provided with handle E mounted upon the window frame, and engaging with the sash frame, substantially as shown and described.

No. 22,329. Electric Railway Signal. (Signaux Electriques de Railroute.)

William Vogel, William Heinemann and Otto Wasmausdorf, Chicago, Ill., U.S., 1st September, 1885; 5 years.

Claim.—1st. The combination of a contact or contacts, placed along the track connecting wires, switch battery, with other contacts which are placed along the track, and connected to the telephone or other electrically operated signalling device, contacts on the locomotive, an electrically operated mechanism for blowing the whistle or sounding an alarm, and a second electrically operated device for sending or receiving messages or signals to or from the station, substantially as shown. 2nd. The combination of a contact or contacts, placed along the track and connected to the battery in the station, contacts on the locomotive, an electrically operated mechanism for sounding an alarm or blowing the whistle, and a second electrically operated signalling device, with a second contact, or a pair of contacts also placed along the track and connected to the telephone or other electrically operated device, both at the station and on the locomotive, substantially as described. 3rd. The combination of the strong battery M, weak battery o, switches, telephone, or other electrically operated signalling device, with contacts wire J, two contacts or sets of contacts, placed along the road, contacts on the locomotive, and suitable electrically operated mechanisms on the locomotive, substantially as set forth. 4th. The combination of the locomotive, with the electro-magnet A, armature C, provided with hook P, a train of wheels and the spring actuated lever which is connected to the whistle or other alarm, substantially as set forth.

No. 22,330. Apparatus for Beating and Manipulating Paper Pulp. (Appareil à Battre et Manipuler la Pâte à Papier.)

Smith, Winchester & Co., South Windham, Conn. (Assignees of Joseph Jordan, Philadelphia, Pa., U.S., 1st September, 1885; 5 years.

Claim.—1st. In a closed pulp beating engine, the combination of the outer conical frustum A, the inner conical frustum F, the opposing frictional surfaces of which are armed with grinding serrations or knives, and two water pipes O, O¹ provided with suitable cocks, whereby water can be projected into the interior at one or two different points in the operation of grinding, substantially as described. 2nd. In a closed pulp beating engine, three water pipes O, O¹, O¹¹, provided with suitable cocks and projecting through the outer shell A, whereby water can be projected into the interior at one, two, or three different points in the operation of grinding, substantially as described. 3rd. In a closed pulp beating engine, a water pipe O, provided with a suitable cock and projecting through the outer shell A, whereby water can be projected into the interior at a point beyond that where the operation of grinding begins, substantially as described. 4th. In a closed pulp-beating engine, the water pipe O projecting through the outer shell A, and provided with a suitable cock and steam pipe P, connected with an opening through the outer shell A whereby either steam or water can be projected into the interior between the grinding surfaces at will, substantially as described. 5th. In a closed pulp-beating engine, the water-pipe O, projecting through the outer shell A, at one end provided with a suitable cock and connected to the other with a water-supply pipe or conduit, whereby water can be injected into the interior, substantially as and for the purposes described. 6th. In a closed pulp-beating engine, the water-pipe O projecting through the shell A, at one end provided with a suitable cock, and connected to the other end with a water supply or conduit, and a pump N to project water under pressure into the interior of the pulp engine, substantially as de-