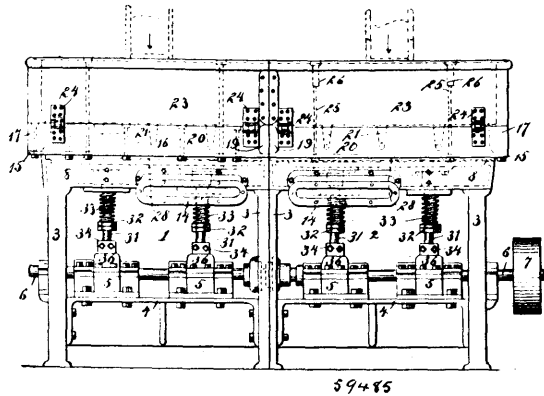


4th. In a cigarette machine, the combination, with a supporting sleeve, of a pusher-rod arranged to push the paper-wrapper onto the supporting-sleeve, a standard by which the pusher is carried, a sliding-head movable in ways in the machine-frame, a horizontally-arranged bell-crank provided with a slotted end engaging a pin on the sliding-head, a spring normally pressing the bell-crank in one direction, a reciprocating slide provided with a laterally arranged notch, and means carried by the bell-crank and arranged to enter the notch in the slide and to be forced out of the same, whereby the pusher-rod is reciprocated, substantially as set forth. 5th. In a cigarette machine, the combination, with a rotary drum having longitudinal grooves in its periphery to receive the paper-wrappers, a ratchet-wheel connected to said drum, a pawl-rod for rotating the ratchet-wheel and means for operating the pawl-rod, of a rotary brush device above the drum and arranged to brush back the excess of paper-wrappers, a pulley connected to the brush, a pulley connected to the drum and a belt passing around both pulleys, whereby the brush is driven positively upon the rotation of the drum, substantially as set forth. 6th. In a cigarette machine, the combination, with a plate a lid hinged thereto, and a lever arranged to be operated on the closing of said lid, of a driving mechanism arranged to operate the machine, and means actuated by said lever for coupling the driving mechanism to drive the machine, substantially as set forth. 7th. In a cigarette machine, the combination, with a hand operating device and a power operating device, of an automatic clutch mechanism intermediate the two operating devices, whereby the hand operating device may be employed while the device is out of action, substantially as set forth. 8th. In a cigarette machine, the combination, with a plate and a lid hinged thereto, of a power-operating device, and means actuated by the movement of the lid for coupling said power-operating device with the cigarette-making mechanism, substantially as set forth. 9th. In a cigarette machine, the combination with a driving-shaft, a pulley loosely mounted thereon, a ratchet-wheel fixed to said pulley, a disc fixed on the driving-shaft, and a bell-crank pivoted to the disc, said bell-crank having a pawl and an outward-extending arm, of a spring tending to press the pawl into engagement with the ratchet-wheel, and means arranged to be brought into the path of the outward-extending arm of the bell-crank, whereby the pawl is reloaded from the ratchet-wheel, substantially as set forth. 10th. In a cigarette machine, the combination, with a driving-shaft, a pulley loosely mounted thereon, a ratchet-wheel fixed to the pulley, a disc fixed to the driving-shaft and provided with a notch, and a bell-crank pivoted to the disc and arranged to engage the ratchet-wheel, said bell-crank having a pawl and an outward-extending arm, of a spring tending to press the pawl into engagement with the ratchet-wheel and a lever arranged to engage the outward-extending arm of bell-crank, and provided with a nose arranged to enter the notch in the disc, whereby the machinery is stopped at a predetermined point, substantially as set forth. 11th. In a cigarette machine, the combination, with a drum having grooves arranged to receive the cigarettes, a ratchet-wheel connected to the drum, and a pawl arranged to operate the drum, of a reciprocating slide provided with a notch, means connected to the pawl and arranged to contact with the slide, and a spring arranged to draw said means into the notch to retract the pawl, whereby the drum is positively rotated by the slide and the pawl is moved back by the spring, substantially as set forth. 12th. The combination, with a revoluble feed-roll, a filling-rod at one side of said roll and a wrapper-clamp between the feed-roll and filling-rod, of a reciprocating slide actuating said feed-roll, filling-rod and wrapper-clamp, substantially as described. 13th. The combination, with a feed-drum having a series of longitudinal grooves in its periphery, a plate and a lid, each having a recess, the said recesses together forming a chamber in line with one of the grooves in the feed-drum, and a filling-rod arranged to move in said chamber, of a slide, means for reciprocating the slide, and mechanism intermediate the feed-drum and filling-rod, whereby the former is intermittently rotated to bring the grooves successively opposite the chamber, and the filling-rod is moved in the said chamber, substantially as described and for the purpose set forth. 14th. The combination, with a sleeve arranged to receive the cigarette wrapper, and a clamp, of a slide, and mechanism intermediate the slide and clamp whereby the latter is moved toward and from the sleeve by the movement of the slide, substantially as described and for the purpose set forth. 15th. The combination, with a feed-roll adapted to receive cigarette wrappers and means for supplying such wrappers to said feed-roll, of a rotary brush arranged to hold back the surplus tubes, substantially as described. 16th. The combination, with a feed-roll adapted to receive cigarette wrappers and a trough for supplying cigarette wrappers to the feed-roll, of a rotary brush mounted above the feed-trough, and means for simultaneously operating the feed-roll and brush, substantially as described and for the purpose set forth. 17th. In a cigarette machine, the combination, with a feed-trough, and links secured to each corner and arranged to support the trough and permit it to oscillate, of mechanism for reciprocating said feed-trough, substantially as set forth. 18th. In a cigarette machine, the combination, with a movable feed-trough, a rotary drum arranged to remove the cigarettes from the feed-trough, a ratchet-wheel connected to the drum, and a pawl for operating the ratchet-wheel, of a counter-pawl engaging said ratchet-wheel and moved thereby, said counter-pawl being connected to the feed-trough, whereby the latter is vibrated, substantially as set forth.

No. 59,485. Paper Pulp-Strainers.*(Passoire pour pâte à papier)*

John W. Smith, Sandy Hill, New York, U.S.A., 1st April, 1898 ; 6 years. (Filed 3rd January, 1898.)

Claim.—1st. A pulp screen or strainer, comprising a screen-box composed of two sections detachably connected together, a screen-plate held between the sections by the detachable connections between said sections and capable of being removed when the sections are separated, means to supply pulp to said box on one side of the screen, means to discharge the pulp from the box on the other side of the screen, and means to draw the pulp through the screen, substantially as set forth. 2nd. A pulp screen or strainer, comprising an open top lower box-section having its side bars correspondingly notched along their inner sides, cross-bars extending transversely across the lower section and with their lower ends held removable in said notches in the side bars, a removable screen-plate extending across the open top of the lower section and fitting flush on the edges of the same, the central portion of said screen being supported on the upper surfaces of said cross-bars, and upper section having an open bottom fitting flush on the screen plate, said upper section being detachably connected to the lower section and having its connections arranged to hold the screen-plate against removal from the screen box when the sections are closed together, means to supply pulp to the upper section, means to withdraw pulp from the lower section, and means to draw the pulp through said screen-plate, substantially as set forth. 3rd. In a pulp screen or strainer, the combination of a table having a hollow upper face and having a partition formed vertically in and extending longitudinally along the hollow at one side of the table, whereby a passage is formed in the table along one side of the main portion of the hollow therein and forming an outlet for the pulp, a diaphragm vertically movable in the main portion of the hollow, means for actuating diaphragm, a flexible gasket extending across the spaces between the edges of the diaphragm and the walls of the hollow in the table, a lower box section having its bottom and top open, said section being arranged on the top of the table and having its bottom formed by the diaphragm and its interior in communication with the passage along the side of the hollow in the table, a removable screen-plate extending across the open top of said lower section and supported at its edges upon the edges thereof, and an upper box-section having an open bottom and provided with means for supplying pulp to it, said upper section being arranged with its lower edges resting upon the edges of the screen-plate and detachably connected to the edges of the lower box-section, substantially as shown and described. 4th. A pulp screen or strainer having two screen-boxes provided with screen-plates and diaphragms and arranged end to end, said screen-boxes each being composed of two sections and having the adjacent ends of their lower sections formed by removable cross-bars, each box having means for closing the end of its upper section adjacent to the other box, whereby when one box is open the other may be in operation, substantially as set forth.

No. 59,486. Paper Stock Refiner.*(Machine à épurer la pulpe.)*

James H. Baker, George F. Shevlin and Frederick H. Baker, all of Saratoga Springs, New York, U.S.A., 1st April, 1898 ; 6 years. (Filed 4th January, 1898.)

Claim.—1st. In a paper stock refining machine, the combination with a horizontal shaft and bearings for supporting the same, of a runner stone and a holder for the same secured upon the shaft, a stationary stone and a two part case surrounding the stones and to one part of which the stationary stone is secured, there being a central opening to the stationary stone and a supply pipe for the paper stock, bearings at the ends of the horizontal shaft and a spring for pressing the runner stone towards the stationary stone and a screw for limiting the movement, substantially as set forth. 2nd. In a paper stock refining machine, the combination with a horizontal shaft and bearings for supporting the same, of a runner stone and a holder for the same secured upon the shaft, a stationary stone and a