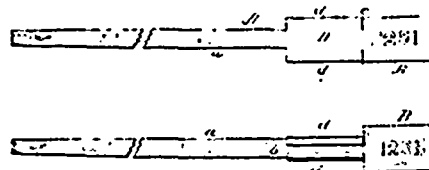


casing therefor, and having an opening at one side, in combination with the carding cylinder, a cylindrical casing enclosing the same and having an opening for said brush and a guide hopper below said cylinder, whereby tobacco may be removed from the carding cylinder and discharged into the guide hopper, substantially as described. 5th. The cylindrical casing and interior carding cylinder, in combination with a guide hopper below said cylinder, guide channel 4, at the bottom of the hopper, having lateral recesses, a filler carrier tape with its edges in said recesses of the guide channel, a removable side strip 6, for inserting the tape, and means for feeding tobacco stock to the carding cylinder, substantially as described. 6th. The combination with the feed apron and yielding feed roller above the same, of the governing mechanism connecting with said roller and also with a belt shifter, intermeshing cone gearing, a multiple disc pulley, connections intermediate of each disc and its corresponding gear, a separate pulley on the power shaft, a belt on said pulleys, a shifter engaging said belt, and connecting gearing for operating said feed apron and roller, and regulating the speed thereof, substantially as described. 7th. In a cigarette machine having a carding cylinder and enclosing casing, the combination with the feed apron on rollers and a vertically movable feed roller above said apron, of belt shifting mechanism consisting of levers pivoted to the frame of the machine and connecting with said feed roller, a pivoted right angle lever and connecting links, a shifting bar connecting the latter lever with the belt on the pulleys, of the operating gearing, and suitable cone gearing, pulleys co-operating therewith, belts and gearing connecting the power shaft with one of the rollers carrying the feed apron and said feed roller for controlling the speed thereof, substantially as described. 8th. The combination, with the carding cylinder and casing of a revolving brush adjacent thereto, the discs 18 set in the side frame and having eccentric openings in which are inserted the axes of the brush, and means for securing the discs in place for adjusting the brush with relation to the carding cylinder, substantially as described. 9th. The combination, with the guide channel 4, the carrier tape therein and means for supplying tobacco thereto, of the tapering trough 78 having inwardly turned edges for curving the tape and wrapper, the folding channel and a guard device 94, set into the trough and folding channel, substantially as described. 10th. The combination, with the tapering trough 78, having inwardly turned edges and the carrier tape therein of the folding channel and a guard device 94, the latter having side plates located in said trough and channel for retaining the tobacco stock therein, substantially as described. 11th. The combination, with the folding channel, having a slot or opening through its bottom, of the upper grooved compressing roller, projecting into the channel, a filler carrier tape in the channel, and the lower grooved compressing roller projecting into the opening at the bottom of the channel, and having a groove wider than the upper roller and receiving the filler carrier tape, substantially as described. 12th. The combination with the folding channel, having a slot or opening in its bottom, of the lower grooved compressing roller, projecting into such opening, the filler carrier tape in the channel and groove of said roller, the lateral guard plates 96, in the channel on each side, for protecting the edges of said tape and the upper compressing roller between said guard plates, and entering the lower roller, substantially as described. 13th. The combination with the slotted folding channel, of the lower and upper grooved compressing rollers, working therein, and into each other, the filler carrier tape in the channel and lower roller, and the scraper 97 in the channel, bearing in the groove of the upper roller for detaching tobacco therefrom, substantially as described. 14th. The combination with the guide channel 4, the tapering trough 78, folding channel 95, and carrier tape of the compressing roller 79, above the trough, the upper and lower grooved compressing rollers working in the folding channel and the operating gearing for turning the upper compressing rollers, substantially as described. 15th. The combination with the slotted folding channel, the lower grooved compressing roller and carrier tape therein, of the grooved compressing roller 84, above the channel and having a shaft and pinion, the vertical shaft 87, having a bevelled gear-wheel at its upper end, meshing with said pinion, and also having at its lower end a worm-wheel, and a worm on a countershaft meshing with said worm-wheel for operating said compressing roller, substantially as described. 16th. The combination with the folding channel and carrier tape therein, of the longitudinal compressing finger 98, the guard plate 100, for holding up one edge of the tape and wrapper, the deflector 101, for turning down the opposite edge of the tape and wrapper, the paste wheel for supplying paste to the standing edge of the wrapper, the separator 103, for separating the tape from the wrapper, the guard plate 105, serving to hold up the separated edge of the tape, and the deflector 106, for turning down the left hand edge of the tape and pasted edge of the wrapper upon the previously turned down right hand edge of the wrapper, for enclosing the filler-rod, substantially as described. 17th. The combination with the vertical paste can, having a longitudinal slotted lip, near its upper end, the horizontal paste wheel working therein and secured to the vertical shaft, a bevelled gear-wheel on said shaft, the vertical paste wheel 128, bearing upon the edge of the horizontal paste wheel and having connected with its hub a bevelled pinion meshing with said bevelled gear-wheel, and mechanism for turning the shaft of the horizontal paste wheel. 18th. The combination with the paste can and the horizontal and vertical paste wheels having bevelled edges

beating one upon the other, of the intermeshing bevelled gear-wheel and pinion on the shafts of said wheels, and suitable gearing for turning the vertical shaft of the horizontal paste wheel, substantially as described. 19th. In a cigarette machine a reciprocating carriage mounted to slide on guide rods, a curved bar on said carriage, having a cigarette holder at its upper end and engaging at its lower end with a cam groove, a laterally oscillating lever pivoted to the carriage and carrying at its upper end a cutter disc and bearing at its lower end on a cam in combination with the cams for operating the carriage and cutter disc, and means for turning said disc, substantially as described. 20th. In a cigarette machine, the cutting mechanism constructed with a pair of longitudinal guide rods, one above the other, sliding sleeves on said rods, a curved bar 139, mounted upon and co-acting said sleeves and having at its upper end a cigarette holder or guide opening and extending at its lower end into a cam groove, the lateral oscillating lever 141, pivotally connected to the lower sleeve and carrying at its upper end a stud shaft having a cutter disc and pulley thereon, and bearing at its lower end upon a cam to give it oscillating motion, all in combination with a cam for sliding said sleeves upon the guide rods, a cam for oscillating the lever carrying the cutter disc and a pulley connecting by a belt with the pulley on said stud shaft which carries the cutter for turning said disc, substantially as described.

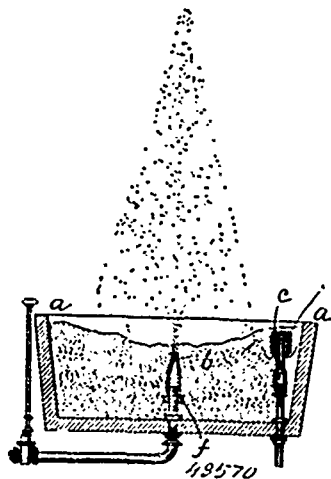
No. 48,569. Car Seal and Tag. (Sceau et étiquette de chars.)



Frank Aldrich, Detroit, Michigan, U.S.A., 2nd April, 1895; 6 years.

Claim.—1st. A car seal consisting of a strip of metal bulging in width in its longitudinal centre to receive its consecutive tag number, and having turned-over lips near one end forming a loop for the reception of the other end of the strip to form a joint, said joint portion being bent in a U-shaped form to lock the parts together, as and for the purpose set forth. 2nd. A car seal consisting of a strip of metal having, near one end, turned over lips for the reception of the other end of the strip to form a joint, said joined portions being bent in a U-shaped form and having a hole punched through the different layers of metal at the bottom of the U-shaped portion to bur the underside thereof, whereby the joined portions are securely locked together, as and for the purpose set forth.

No. 48,570. Fountain. (Fontaine.)



Edwin D. Brainard, Great Barrington, Massachusetts, U.S.A., 2nd April, 1895; 6 years.

Claim.—1st. The method of producing a fountain with a pulsating stream which consists in introducing into an uncovered body of liquid an upwardly directed continuous jet of liquid at a point below the surface thereof, substantially as described. 2nd. In a fountain, the combination with an open vessel of an upwardly directed inlet jet pipe terminating therein and having its orifice placed at a lower level than the lowest point from which liquid can escape from said vessel, and in unobstructed communication with the main body of the contents of the vessel, whereby the vessel is adapted to contain a body of water freely submerging said orifice, and a source of liquid supply adapted to force a jet from said jet pipe under sufficient pressure to rise above the level of liquid in the vessel notwithstanding