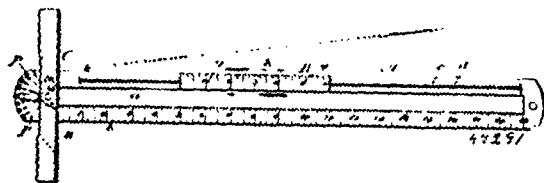
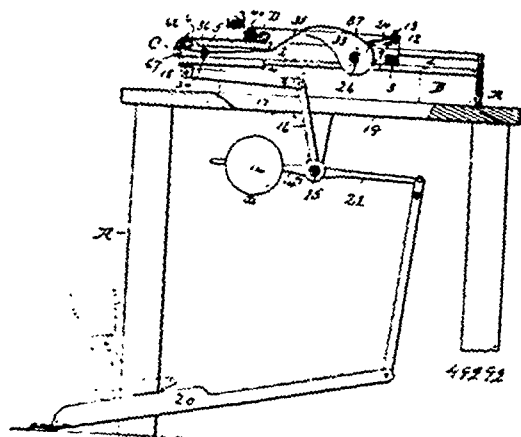


shown in rein and described. 3rd. The combination of the T-head, consisting of a strip folded double and slotted for the passage of the



end of the ruler, the ruler projecting through the head, pivoted thereto, and provided with holes in the projecting end registering with degree lines, and the spring attached to the head and provided with a pin entering the holes, as shown and described and for the purpose specified. 4th. The combination of a ruler provided with two or more sets of holes alternating with each other and arranged in line with graduations on the scale, a T head attached to one end of the ruler, and a graduated slide attached to the ruler and fitted to move over a convex seat of the same, as shown and described and for the purpose specified.

No. 49,292. Cigar Bunching Machine.
(Machin. à lier les cigares.)



Joseph Delamer and Leon Klein, both of New York, State of New York, U.S.A., 21st June, 1895; 6 years.

Claim.—1st. In a cigar bunching machine, the combination, with a reciprocating carriage of a rolling bed mounted on the carriage, a bunching-roller, a bunch-rolling apron mounted wholly upon and carried by the carriage and supported wholly thereby so as to move bodily therewith, and means for tightening the apron as the carriage performs its rearward working movement during bunching, substantially as shown and described. 2nd. In a cigar bunching machine, the combination with a reciprocating carriage, of a rolling-bed mounted thereon, a bunching-roller, a bunch-rolling apron mounted upon and carried wholly by the carriage and supported wholly thereby so as to move bodily therewith, means for preventing change in the relative positions of the rear end of the apron and of the bunching-roller during the closing of the light upon the first working movement of the carriage rearward, and means for drawing upon the forward end of the apron in advance of the light so as to tighten the apron as the carriage continues to move rearward after the closing of the light, substantially as shown and described. 3rd. In a cigar bunching machine, the combination with a bunch-rolling apron, the working portion of which is elastic throughout its entire width, of a rolling-bed, a bunching-roller, means for closing the light of the apron by changing the relative positions of the bunching-roller and rolling-bed, means for preventing change in the relative positions of the rear end of the apron and of the bunching-roller during the closing of the light, and means for drawing upon the apron in advance of the light after the same is closed so as to tighten and stretch the same, substantially as shown and described. 4th. In a cigar bunching machine, the combination with a bunch-rolling apron the working portion of which is elastic throughout its entire width, of a rolling-bed, a bunching-roller of the form of a right cylinder, means for closing the light of the apron by changing the relative positions of the bunching-roller and rolling-bed, means for preventing change in the relative positions of the rear end of the apron and of the bunching-roller during the closing of the light, and means for drawing upon the apron in advance of the light after the same is closed so as to tighten and stretch the same, substantially as shown and described. 5th. In a cigar bunching machine, the combination with a reciprocating carriage of a rolling-bed, a bunching-roller, a bunch-rolling apron the working portion of which is elastic throughout its entire width, positive

means for preventing the throwing of the bunch filling from the light during the movement of the carriage while closing the same, and means for drawing upon the forward end of the apron in advance of the light so as to tighten the apron as the carriage continues to move rearward after the closing of the light, substantially as shown and described. 6th. In a cigar bunching machine, the combination with a reciprocating carriage, of a rolling-bed, a bunching-roller, a bunch-rolling apron mounted upon the carriage and carried wholly thereby and supported wholly thereon so as to move bodily therewith, means for preventing the throwing of the bunch filling from the light during the first rearward working movement of the carriage, and means for drawing upon the forward end of the apron in advance of the light as the carriage continues its rearward working movement after the closing of the light, substantially as shown and described. 7th. In a cigar bunching machine, the combination with a reciprocating carriage, of a rolling-bed, a bunching-roller, a bunch-rolling apron mounted upon the carriage and carried wholly thereby and supported wholly thereon so as to move bodily therewith, means for preventing change in the relative positions of the rear end of the apron and of the bunching-roller during the first movement of the mechanism in closing the light, and means for drawing upon the forward end of the apron in advance of the light so as to tighten the same during the rearward working movement of the carriage after the closing of the light, substantially as shown and described. 8th. In a cigar bunching machine, the combination with a reciprocating carriage, of a rolling-bed, a bunching-roller, a bunch-rolling apron mounted upon the carriage and carried wholly thereby, means for preventing change in the relative positions of the rear end of the apron from being carried rearward during the first portion of the rearward working movement of the carriage, and means for drawing upon the apron so as to tighten the same after the rear end of the apron begins to move rearward with the carriage, substantially as shown and described. 9th. In a cigar bunching machine, the combination with a carriage reciprocating in a plane, of a rolling-bed, a bunching-roller, a bunch-rolling apron mounted upon the reciprocating carriage and carried wholly thereby, means for preventing the rear end of the apron from changing its position relative to the bunching-roller during the closing of the light, and means for tightening the apron after the closing of the light, substantially as shown and described. 10th. In a cigar bunching machine, the combination, with a reciprocating carriage, of a rolling-bed, a bunching-roller, a bunch-rolling apron the working portion of which is elastic throughout its entire width mounted upon the carriage and carried wholly thereby, means for preventing change in the relative positions of the rear end of the apron and of the bunching-roller during the first movement of the mechanism in closing the light, and means for drawing upon the front end of the apron in advance of the light so as to tighten the same during the rearward working movement of the carriage after the closing of the light, substantially as shown and described. 11th. In a cigar bunching machine, the combination, with a reciprocating carriage, of a rolling-bed, a bunching-roller, a bunch-rolling apron the working portion of which is elastic throughout its entire width mounted upon the carriage and carried wholly thereby, means for preventing the rear end of the apron from being carried rearward during the first portion of the rearward working movement of the carriage, and means for drawing upon the apron so as to tighten the same after the rearward end of the apron begins to move rearward with the carriage, substantially as shown and described. 12th. In a cigar bunching machine, the combination, with a reciprocating carriage, of a rolling-bed, a bunching-roller, a bunch-rolling apron the working portion of which is elastic throughout its entire width mounted upon the carriage and carried wholly thereby, means for preventing the rear end of the apron from being carried rearward during the first portion of the rearward working movement of the carriage, and means for drawing upon the apron so as to tighten the same after the rearward end of the apron begins to move rearward with the carriage, substantially as shown and described. 13th. In a cigar bunching machine, the combination, with a carriage reciprocating in a plane, a rolling-bed, a bunching-roller, a bunch-rolling apron the working portion of which is elastic throughout its entire width mounted upon the reciprocating carriage and carried wholly thereby, means for preventing the rear end of the apron from changing its position relative to the bunching-roller during the closing of the light, and means for tightening the apron after the closing of the light, substantially as shown and described. 14th. In a cigar bunching machine, the combination, with a reciprocating carriage, of a rolling-bed, a bunching-roller, a bunch-rolling apron mounted upon the carriage and carried wholly thereby and supported wholly thereon so as to move bodily therewith, and means for automatically tightening the apron during the rearward working movement of the carriage while forming the bunch, substantially as shown and described. 15th. In a cigar bunching machine, the combination, with a reciprocating carriage, of a rolling-bed, a bunching-roller, a bunch-rolling apron mounted upon the carriage and carried wholly thereby, and supported wholly thereon so as to move bodily therewith, means for