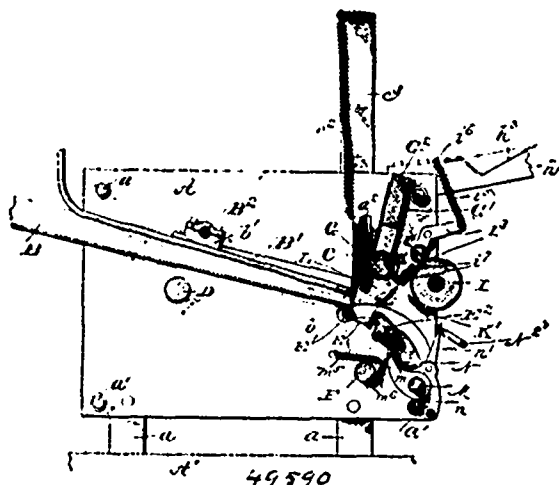


sewing machine the combination with the head of the machine and needle-bar having a thread opening above the said head, of the bell-crank lever forming part of a thread gripping device, the spring and adjusting screw, substantially as described. 6th. In a sewing machine the combination with the head of the machine, of the needle-bar having a thread opening above the said head and a thread groove in its lower portion, of the bell-crank lever forming a part of a thread gripping device, the spring and adjusting screw whereby the needle-bar guides and controls the thread, substantially as described. 7th. In a sewing machine the combination, with the inclined work support, of feeding chains having teeth provided with upper faces having a greater angle of inclination than the incline of the work support, substantially as described. 8th. In a sewing machine the thread guide and controlling devices including a grooved needle-bar, the thread lying on the said groove, substantially as described. 9th. In a sewing machine the combination with the grooved needle-bar, of thread guiding and tension devices holding the thread in the groove of the needle-bar, substantially as described. 10th. In a sewing machine the combination with the head of the machine and the longitudinal recessed needle-bar having a cam at one end of said recess, the said head of the machine being provided with two thread guides in different horizontal planes, and an aperture intermediate the said thread guides communicating with the needle recess, of a spring actuated tension arm located intermediate said thread guides and provided with a projection extending through said aperture in line with said cam, said projection having a thread guide therein normally held out of line with the thread guides on the head of the machine, substantially as described.

No. 49,590. Cigarette Machine. (Machine à cigarettes.)



The Wood International Cigarette Machine Company, assignee of James Nelson Wood, Richmond, Virginia, U.S.A., 2nd August, 1895; 18 years.

Claim. 1st. In a cigarette machine, the combination with tobacco supplying devices, of the blanket or apron, the travelling cigarette forming device secured to one end and the movable table secured to the other end of said blanket or apron, substantially as described. 2nd. In a cigarette machine, the combination with the blanket, of the pivoted table having the broad rear side, and the travelling roller, said blanket being mounted in operative relation to said roller and table, said roller in one extreme of its movement lying in a position relatively to the said table to form a pocket for the reception of the filler, between said roller and the said rear side of the table, substantially as described. 3rd. In a cigarette machine, the combination with tobacco and wrapper supplying devices, of the rolling blanket mounted in operative relation to the roller and the table, the travelling roller, the movable table having a broad rear side normally held in the path of said roller and means for moving the said roller to clamp the wrapper against the rear side of the table, substantially as described. 4th. In a cigarette machine, the combination with tobacco and wrapper supplying devices, of the rolling blanket, mounted in operative relation to the roller and the table, the travelling roller, the movable table having a broad rear face in the path of the roller, means for moving the roller and means for withdrawing the table from the path of the roller, substantially as described. 5th. In a cigarette machine, the combination with tobacco and wrapper supplying devices, of the rolling blanket, the travelling roller secured to one end of said blanket and having a broad rear face in the path of said roller, and means for tilting said table to withdraw it from the path of said roller, substantially as described. 6th. In a cigarette machine, the combination with tobacco and wrapper supplying devices, of the rolling blanket, the travelling and rotating roller secured to one end of said blanket, the pivoted table secured to the other end of said blanket and having a broad rear face in the path of said roller, means for tilting said table to with-

draw it from the path of said roller, and means for rotating said roller in a direction to wind up the blanket, substantially as described. 7th. In a cigarette machine, the combination with the rolling blanket, of the travelling rotating roller secured to one end of said blanket, the movable table said blanket being mounted in operative relation with said table, means for moving said table into and out of the path of the roller, and means for rotating said roller in a direction to wind up the blanket, substantially as described. 8th. In a cigarette machine the combination with the rolling blanket, of the rotating travelling roller secured to one end of said blanket and adapted to move in a curved path, the table having its upper face of the same curvature as the path of the roller and a broad rear face lying at an angle to said curved face, said blanket being mounted in operative relation to said table, means for moving said roller and for rotating it to wind up the blanket, means for holding said table in position with its broad rear face in the path of the roller, and means for moving said table out of the path of the roller to allow said roller to pass over said curved face, substantially as described. 9th. In a cigarette machine the combination with the wrapper supplying devices, of the rolling blanket, the roller, the movable table provided with a broad rear side normally in the path of the movable roller, means for moving the roller to clamp the paper between different portions of the blanket against the rear side of the table, a knife and means for operating it to cut the paper when so held by roller, blanket and table, substantially as described. 10th. In a cigarette machine the combination with the cigarette rolling devices adapted to grasp one end of the wrapper, or the wrapper supplying devices adapted to feed the wrapper into the bite of the rolling devices, a pasting device, cutting mechanism for severing the paper while held in the rolling devices, and means for carrying the severed end of the wrapper into engagement with the pasting device while the other end of the wrapper is held in the rolling devices, substantially as described. 11th. In a cigarette machine the combination with the cigarette rolling devices adapted to grasp one end of the wrapper, of the wrapper supplying devices adapted to feed the wrapper into the bite of said rolling devices, a pasting device, cutting mechanism for severing the paper while held in the rolling devices, a pasting blade for carrying the severed end of the wrapper into engagement with and past the pasting device, and means for holding said blade in its extreme position until the wrapper is withdrawn therefrom by the rolling of the cigarettes, substantially as described. 12th. In a cigarette machine the combination with the rolling blanket, of the travelling roller adapted to move in a curved path, the pivoted table secured to one end of the blanket and having a face of the same curvature as the path of the roller, said face lying normally away from the path of the roller, and means for bringing said face into operative relation with the path of the roller, substantially as described. 13th. In a cigarette machine, the combination with the rolling blanket, of the travelling roller adapted to move in a curved path, the pivoted table secured to one end of the blanket and having a face of the same curvature as the path of the roller, a spring holding said table in position with said curved face away from said path, and operative means for moving said table from an eccentric to a position concentric with the path of the roller, substantially as described. 14th. In a cigarette machine, the combination with the rolling blanket, of the travelling roller adapted to move in a curved path, the pivoted table having a curved face, of the same curvature as the path of the roller, said face lying normally away from the path of the roller, devices for moving said table into a position to bring said face concentric with the path of the roller and devices for moving said table out of said concentric position toward the rollers to compress the pasted portions of the cigarette, substantially as described. 15th. In a cigarette machine, the combination with the rolling blanket mounted in operative relation to the roller and the table, the travelling roller, the pivoted table and devices for moving said table toward the roller to compress the pasted edges of the wrapper against the cigarette, substantially as described. 16th. In a cigarette machine, the combination with the compression feeding chute comprising among its members the stationary trough having guiding recesses, and the movable feed plate disposed at an angle to said trough and provided at one end with studs engaging said guiding recesses, of an operating crank shaft connected to said feed plate adjacent to its other end, substantially as described. 17th. In a cigarette machine, the combination with the cigarette rolling devices, of tobacco feeding devices, a tobacco separating plunger and operating means for the same, giving said plunger a forward movement, then a retrograde clearing motion and a further forward movement to press the tobacco into the rolling devices, substantially as described. 18th. In a cigarette machine, the combination with the cigarette rolling devices, of the trimming mechanism including among its members, the pivoted arms for recovering a cigarette and discharging it from the machine, a knife blade pivotally secured to each arm for trimming the cigarette and stops for engaging said knives to force them into engagement with the cigarette during the movement of said arms to eject the cigarette, substantially as described.

No. 49,591. Electrical Exchange. (Echange électrique.)

The Strowger Automatic Telephone Exchange, assignee of Alexander E. Keith, Frank A. Lundquist, John Erickson and Charles J. Erickson, all of Chicago, Illinois, U.S.A., 2nd August, 1895; 6 years.