S. PALMOWSKY.

CIGARETTE TIPPING MACHINE.

APPLICATION FILED NOV. 28, 1908.

942,514. Patented Dec. 7, 1909.

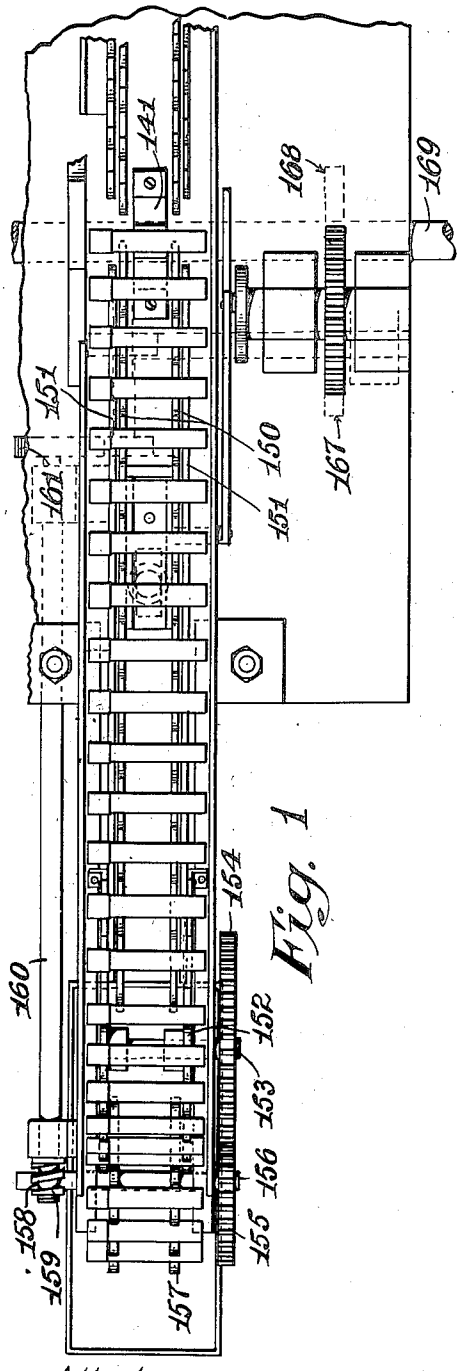

Fig. 1

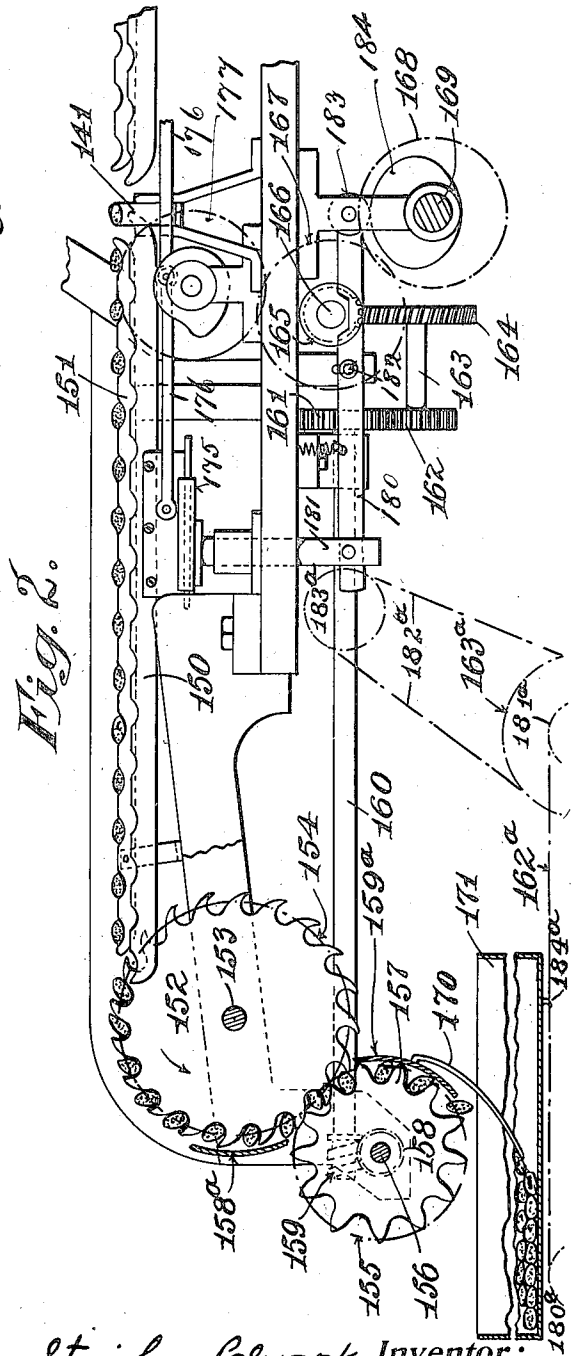

Fig. 2.

Attest:
Louise Enderle.
Amy P. Jurgensen

Stanislaus Palmowsky, Inventor:
by Thos. A. Hill.
Atty

UNITED STATES PATENT OFFICE.

STANISLAUS PALMOWSKY, OF NEW YORK, N. Y.

CIGARETTE-TIPPING MACHINE.

942,514. Specification of Letters Patent. Patented Dec. 7, 1909.

Application filed November 28, 1908. Serial No. 464,892.

To all whom it may concern:

Be it known that I, STANISLAUS PALMOWSKY, a subject of the Czar of Russia, residing in the borough of Manhattan, New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Cigarette-Tipping Machines, of which the following is a specification, reference being had therein to the accompanying drawing.

My invention relates to improvements in cigarette tipping machines and has particular reference to means for conveying away and depositing the cigarettes from the machine after they have been tipped and is adapted for use with the apparatus set forth in my companion applications, Ser. Numbers 464890 and 464891.

Referring to the accompanying drawings, Figure 1 is a plan view partly in section illustrating an apparatus embodying my invention. Fig. 2 is a side elevation of the same.

141 indicates the table upon which each cigarette is deposited and tipped. 150 are conveying rails for taking the cigarette from said table and depositing same upon the table 151 along which the cigarette is progressed step by step as set forth in my companion applications referred to, until it arrives at the discharge drum 152 upon which it is finally deposited by said conveying rails. These conveying rails 150 are slidably mounted in the bearing 175 and are reciprocated therein by the bar 176 attached to the gear wheel 177 meshing with the gear wheel 167 having pinion 165 upon the shaft 166, the gear 167 meshing with gear 168 upon the main driving shaft 169. The rails are vertically reciprocated by the bar 180 attached to the standard 181 carrying the bearing 175. This bar 180 is pivoted at 182 to the framework of the machine and is provided with the roller 183 riding on the cam 184 of the gear 168 on the main driving shaft.

The discharge drum 152 upon which the cigarettes are fed from the conveying rails, rotates upon the spindle 153 provided with the gear 154 meshing with the gear 155 upon the shaft 156 provided with the pinion 158 meshing with the worm 159 upon the shaft 160. This shaft is provided with gear 161 meshing with the gear 162 upon the shaft 163 also provided with gear 164 driven by gear 165 upon the shaft 166 carrying gear 167 meshing with the gear 168, so that it will be seen that as the cigarettes are successively deposited from the conveying rails 150, the toothed drum revolves to receive the cigarettes successively, carrying the same downwardly until they meet a second toothed drum 157 to which the cigarettes are successively transferred as shown in the drawings, said second drum being operated upon the spindle 156 by the gear 155 as aforesaid. Shields such as 158^a and 159^a are also preferably applied beyond the peripheries of the drums to insure against accidental premature discharge of the cigarettes.

162^a is an endless sprocket chain suitably mounted beneath the lower discharge drum as shown and operating upon sprockets 180^a and 181^a, the latter of which is mounted upon the shaft with the sprocket 163^a driven by the sprocket chain 182^a from the sprocket 183^a suitably driven as shown. 170 is a suitable chute upon which the cigarettes are discharged from the second drum 157 and upon which said cigarettes slide into the container 171 provided with depending projection 184^a adapted to engage the sprocket chain 162^a, so that as the cigarettes are deposited in the container, the container is slowly progressed for the purpose of evenly distributing the cigarettes therein.

Of course it will be understood that while the feeding and tipping mechanism is not disclosed in this application, various forms of feeding and tipping mechanism may be employed other than those shown in the accompanying applications herein referred to, and various modifications may be made in this invention without departing from the spirit of the same.

Having described my invention, what I claim as new, and desire to secure by Letters Patent is:

1. In a cigarette tipping machine, conveying rails for conveying the tipped cigarettes to a revolving drum, said drum having hook shaped pockets, a second drum coacting with said first mentioned drum and adapted to receive the cigarettes therefrom, a chute upon which said cigarettes are discharged by said second drum, a box into which said cigarettes are finally discharged and means for moving said box while same is being filled.

2. In a cigarette tipping machine, conveying rails for conveying the tipped cigarettes to a revolving drum, said drum having hook shaped pockets, a second drum coacting with

said first mentioned drum and adapted to receive the cigarettes therefrom, a chute upon which said cigarettes are discharged by said second drum, guard rails at the sides of said drums to keep said cigarettes from falling out, a box into which said cigarettes are finally discharged and means for moving said box while same is being filled.

3. In a cigarette tipping machine, conveying rails for conveying the tipped cigarettes to a revolving drum, said drum having hook shaped pockets, a second drum coacting with said first mentioned drum and adapted to receive the cigarettes therefrom, a chute upon which said cigarettes are discharged by said second drum, a box into which said cigarettes are finally discharged and an endless belt for feeding said box into position to receive said cigarettes.

In testimony whereof I affix my signature in presence of two witnesses.

STANISLAUS PALMOWSKY.

Witnesses:
WALTER OLOWINA,
RICHARD MEISTER.