

W. & H. ROSE.
APPARATUS FOR APPLYING LABELS OR WRAPPERS TO BLOCKS, PACKAGES, OR TINS,
OR OTHER CONTAINERS OF MATERIAL.

APPLICATION FILED AUG. 4, 1910.

Patented Sept. 13, 1910.

3 SHEETS—SHEET 1.

970,353.



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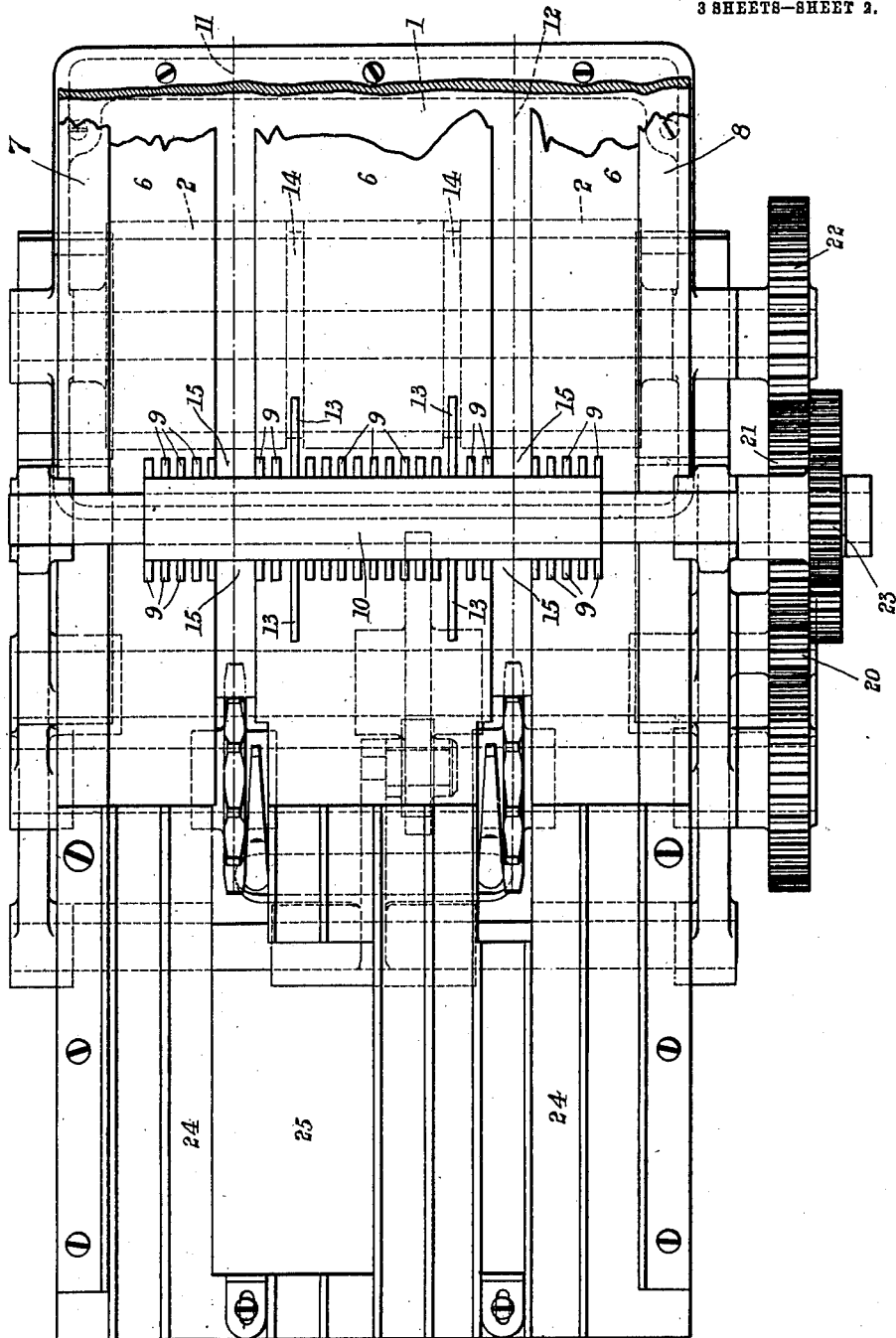
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3 SHEETS—SHEET 2.

Fig. 2.



WITNESSES
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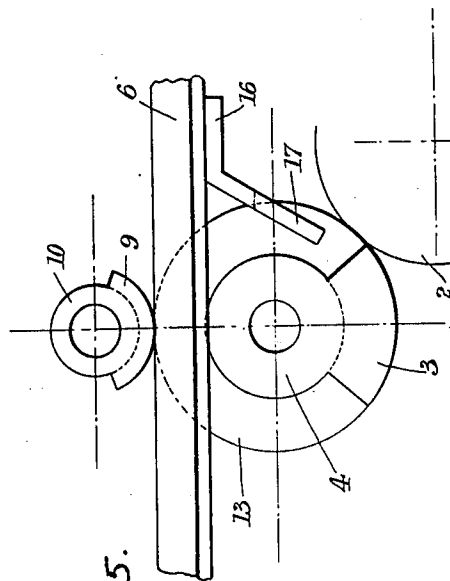
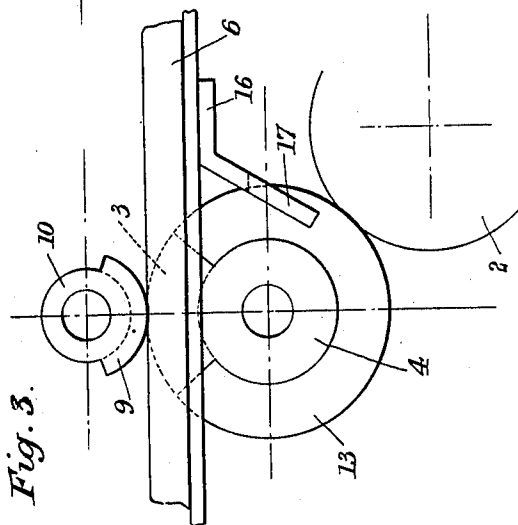
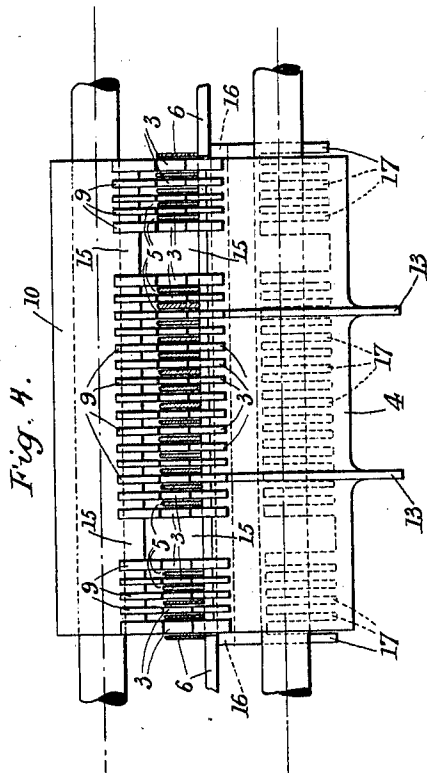
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3 SHEETS—SHEET 3.



WITNESSES
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UNITED STATES PATENT OFFICE.

WILLIAM ROSE AND HENRY ROSE, OF GAINSBOROUGH, ENGLAND.

APPARATUS FOR APPLYING LABELS OR WRAPPERS TO BLOCKS, PACKAGES, OR TINS,
OR OTHER CONTAINERS OF MATERIAL.

970,353.

Specification of Letters Patent. Patented Sept. 13, 1910.

Application filed August 4, 1910. Serial No. 575,565.

To all whom it may concern:

Be it known that we, WILLIAM ROSE and HENRY ROSE, subjects of the King of Great Britain and Ireland, both of Albion Works, Gainsborough, in the county of Lincoln, England, have invented new and useful Improvements in Apparatus for Applying Labels or Wrappers to Blocks, Packages, or Tins, or other Containers of Material, of which the following is a specification.

Our invention consists of improvements in apparatus for applying labels, or wrappers, to blocks, packages, or tins, boxes, or other containers of material, of the kind described in the specification of British Letters Patent No. 27,722 A. D. 1907 granted to us wherein the labels, or wrappers, for the blocks, packages, or tins, boxes, or other containers, (which we will for brevity hereinafter refer to as boxes) are fed into a trough through which passes, or pass, an endless chain, or endless chains, having projections on it, or them, to convey the labels, or wrappers, to a gumming, pasting, or other cementing, device, and has for its object to make the apparatus more efficient in its operation.

We will particularly describe our invention with reference to the accompanying drawings, in which,

Figure 1 shows in side elevation and Fig. 2 in plan the device for applying gum, paste, or other cement, (hereinafter referred to as the cementing device) to the labels, or wrappers. Figs. 3 4 and 5 show details of the said cementing device.

The cementing device is of the kind wherein the cement is supplied from below upward, thus avoiding the deposit of cement on the apparatus which is liable to occur when the cement is applied from above downward, and according to our invention is arranged as follows:—The cement is taken up from the cement trough 1, by a roller, 2, and applied to ribs, or projections, 3, which extend only partly around a roller 4, the other portion of the roller being gapped, these ribs, or projections, 3, pass through slots 5 in the table 6 provided with guides 7 and 8 between which guides the labels, or wrappers, are fed. By the rotation of the roller 4 the ribs, or projections 3 come in contact with ribs, or projections, 9, on a roller 10 which is rotatably mounted above the table 6, the said ribs, or projections 9 extending around the roller 10 to an extent

corresponding to the length of lines of cement to be applied to the labels, or wrappers. The roller 10 rotates twice for each rotation of the roller 4 and the projections on the chain, or chains 11 and 12, are so arranged that there is no label, or wrapper between the rollers 4 and 10 when the ribs, or projections 3, on the roller 4 are passing in contact with the ribs, or projections 9 on the roller 10 as shown in Fig. 3 of the accompanying drawings, and there is a label, or wrapper between the rollers 4 and 10 when the gaps in the roller 4 are passing, as shown in Fig. 5 of the accompanying drawings, so that during one portion of the rotation of the roller 4 the ribs, or projections 9 on the roller 10 first take cement from the ribs, or projections 3 on the said roller 4, and, during the other portion of the rotation of the roller 4, no part of it is in contact with the underside of the label, or wrapper, and the ribs, or projections 9 on the roller 10 apply, to the upper side of the label, or wrapper, the cement previously taken up from the ribs, or projections 3 of the roller 4. To assist in carrying forward the labels, or wrappers, there may be, at any suitable part, or parts, of the roller 4 circular ribs 13, as shown in Figs. 3 and 5 of the accompanying drawings, opposite gaps 14, as shown in Fig. 2 of the accompanying drawings in the cement supplying roller 2, so that the said circular ribs 13 do not receive cement, and a gap, or gaps 15, as shown in Figs. 2 and 4 of the accompanying drawings, is, or are, left at the requisite places between the series of ribs, or projections 3 and 9 on the rollers 4 and 10 respectively to allow of the passage of the chain, or chains 11 and 12. To the underside of the table 6 may be secured a plate 16 having projections 17, as shown in Figs. 3 4 and 5 of the accompanying drawings, adapted to scrape off any cement that may have crept on to the sides of the ribs, or projections 3 on the roller 4.

The several rollers can be driven from any suitable rotating part of the apparatus so as to give the proper relative movements of the chain, or chains, and rollers, such for example, as shown in Figs. 1 and 2 of the accompanying drawings, in which a spur wheel 18, secured to the shaft 19, engages with an intermediate spur wheel 20 which transmits rotary motion to a spur wheel 21

on the roller 4 the latter spur wheel 21 transmitting its rotary motion to spur wheels 22 and 23 respectively.

After the cementing has been done, the labels, or wrappers, are fed forward to the platform 24, as shown in Figs. 1 and 2 of the accompanying drawings, the said platform 24 having a hole 25 in it through which the boxes and labels, or wrappers are pushed into a "mold" carried by the mold-wheel, not shown.

What we claim is:—

1. In apparatus of the character described, the combination with a slotted table, of a cementing mechanism, said mechanism comprising rollers respectively below and above the table along which table the labels or wrappers are adapted to be fed, each of said rollers having projections extending only partly around the rollers, the projections of the lower roller adapted to pass through the slots in the table and register with the projections on the upper roller, one of said rollers rotating twice for each rotation of the other roller, the lower roller applying cement to the upper roller, and the upper roller applying cement to the labels or wrappers, substantially as herein described.

2. In apparatus of the character described, the combination with a slotted table over which the labels or wrappers are adapted to pass, of a cementing mechanism, said mechanism comprising rollers disposed above and below the table, each of said rollers having peripheral projections extending partially around the same so as to leave gaps in the remaining portion of the roller, the lower roller having its projections operating through the slots in the table, and the upper roller being of less diameter than the lower roller, and rotating twice for each rotation of the lower roller, means for applying cement to the lower roller, and means for rotating said rollers.

3. In apparatus of the character described,

the combination with a slotted table over which the labels or wrappers are adapted to pass, of a cementing mechanism, said mechanism comprising rollers disposed above and below the table, each of said rollers having a plurality of spaced peripheral projections arranged side by side and each extending part-way only around the roller, said projections adapted to register during the rotation of the rollers, the upper roller being of less diameter than the lower roller and adapted to make two revolutions to one revolution of the lower roller, means for applying cement to the lower roller, and means for rotating the rollers in opposite directions.

4. In apparatus of the character described, the combination with a slotted table, over which the labels or wrappers are adapted to pass, of a cementing mechanism, said mechanism comprising rollers disposed above and below the table, each of said rollers having peripheral projections arranged side by side and extending partially around the roller so as to leave gaps in the remaining portion of the roller, the lower roller having its projections operating through the slots in the table, circular ribs spaced apart on the lower roller registering with the ribs of the upper roller and adapted to assist in the feeding of the labels or wrappers, means for applying cement to the lower roller, and means for rotating said rollers.

In testimony whereof we have signed our names to this specification in the presence of two subscribing witnesses.

WILLIAM ROSE.

HENRY ROSE.

Witnesses to the signature of the above named William Rose:

CHRISTOPHER DOBBY,

JOSEPH WISEMAN.

Witnesses to the signature of the above named Henry Rose:

ERNEST OCTAVIUS GEORGE,

JOSEPH WISEMAN.