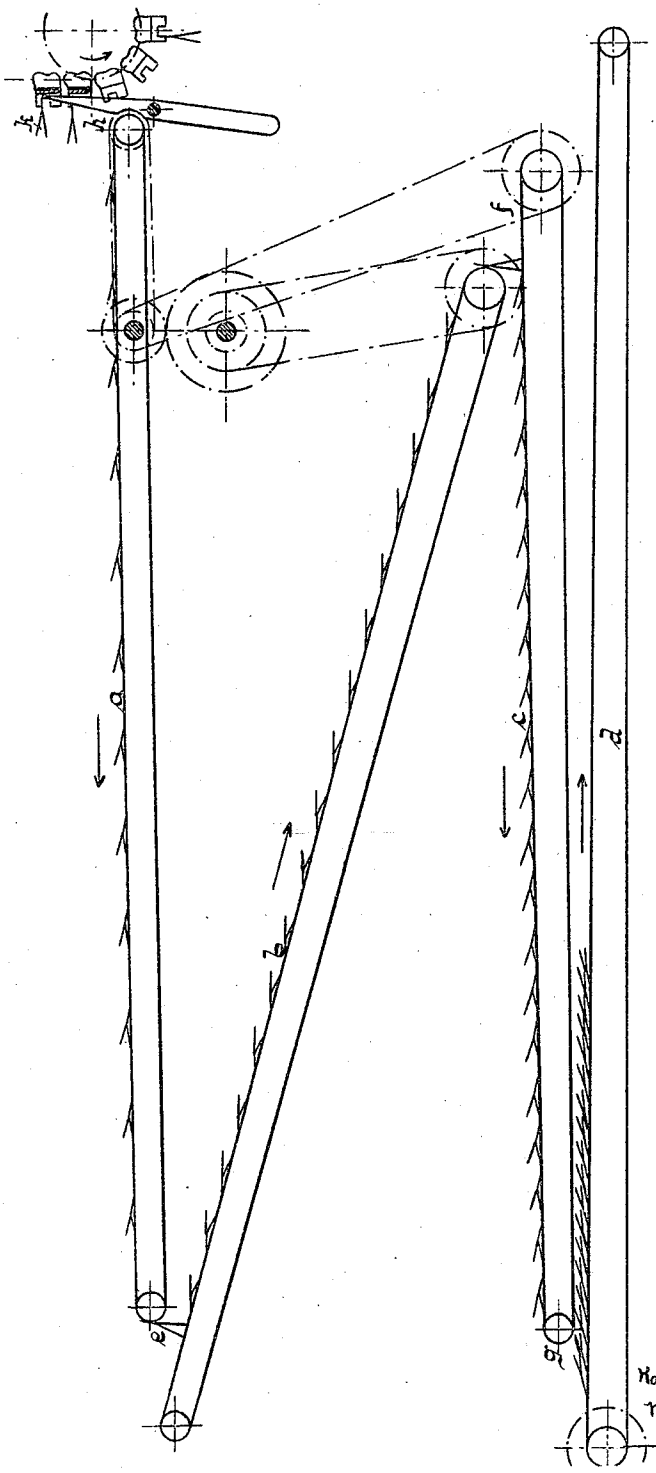
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K. P. GOTTSCHALK

DELIVERY APPARATUS FOR MATCHMAKING MACHINES

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Inventor
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DELIVERY APPARATUS FOR MATCHMAKING MACHINES.

Application filed March 23, 1923. Serial No. 627,233.

To all whom it may concern:

Be it known that I, KARL PAUL GOTTSCHALK, a subject of the Republic of Saxony, German Republic, and residing at Dresden, Republic of Saxony, German Republic, have invented an Improvement in Delivery Apparatus for Matchmaking Machines, of which the following is a specification.

The present invention has for its object an improvement in delivery apparatus for match making machines, said apparatus consisting of endless bands or webs arranged above each other and used in combination with cutting devices by which a first cut strip of wood, pasteboard, paper or the like is cut in separate strips of small length.

According to the improvement forming the object of the present invention the lower endless web or band projecting beyond the extremity or end of the upper web or band is, at the passages situated between each two endless webs or bands, arranged so close or near to the upper web or band that the separate strips resting on the upper web or band, when falling down from the latter, are adjusted and laid down by the lower web or band traveling in opposite direction. The speed of the forward movement of the next lower webs or bands is somewhat less than that of the upper webs or bands for the purpose of obtaining or ensuring a closer delivery of the separate strips on the endless webs or bands and causing the delivery of many strips onto the lowermost endless web or band.

The accompanying drawing illustrates in a side elevation the object of the present invention. *k* are the separate strips which are delivered by the wedge-shaped fingers or slides *h* from the links of an endless chain onto the uppermost endless web or band *a* moving in the direction of the arrow. *b* is another endless web or band arranged below the endless web or band *a* and running in an opposite direction. *c* is a third endless web or band arranged below the web or band *b* and running in the direction of the web or band *a*. *d* is another endless web or band arranged below the web or band *c* and running in the direction of the endless band *b*.

The endless webs or bands situated below each other are arranged in such a manner that, near the passages located between each two webs or bands, the one end of the lower web or band projects beyond the adjacent end of the next upper web or band as represented at the points *e*, *f* and *g*. The webs or bands *a* and *b* at the passage point *e* and the webs or bands *c* and *d* at the passage point *g* are so spaced that as the strip falls off the upper web or band its forward edge strikes on the lower web or band while the rear edge still rests against the end of the upper web or band so that the strips falling down off the upper web or band are adjusted and laid down during or by the movement of the two webs or band or bands in opposite directions. In other words all strips are delivered parallel to each other and at right angles to the endless web or band, as clearly seen in the drawing and assume the same positions on all the webs. The speed of the moving or running webs or bands is so adjusted that the speed of the lower webs or bands gradually decreases and, in consequence, the strips are delivered onto successive webs or bands at smaller distances from each other so as to obtain a closer delivery of the strips on the endless webs or bands and a conveyance of a great number of strips on or by the lowermost web or band.

I claim as my invention:

1. In a delivery apparatus for match making machines, a plurality of superimposed belt conveyors at inclinations to each other and driven in opposite directions, one end of each belt extending beyond the corresponding end of the next succeeding upper belt and spaced therefrom so that each match card in dropping from an upper to a lower belt will strike at its forward edge on the lower belt before its rearward edge leaves the upper belt whereby the match card is turned over in being transferred from an upper to a lower conveyor belt so that the same edge of the match card is the forward edge while being conveyed by the said conveyor belts.

2. In a delivery apparatus for match making machines, a plurality of superimposed belt conveyors at inclinations to each other and driven in opposite directions, with each succeeding belt at a slower speed than the next uppermost belt, one end of each belt extending beyond the corresponding end of the next succeeding upper belt and spaced therefrom so that each match card in dropping from an upper to a lower belt will

strike at its forward edge on the lower belt before its rearward edge leaves the upper belt whereby the match card is turned over in being transferred from an upper to a lower conveyor belt so that the same edge of the match card is the forward edge while being conveyed by the said conveyor belts.

3. In a delivery apparatus for match making machines, a plurality of superimposed belt conveyors at inclinations to each other and driven in opposite directions, with each succeeding belt at a slower speed than the next uppermost belt, one end of each belt extending beyond the corresponding end of the next succeeding upper belt and spaced therefrom so that each match card in dropping from an upper to a lower belt will strike at its forward edge on the lower belt before its rearward edge leaves the upper belt whereby the match card is turned over in being transferred from an upper to a lower conveyor belt so that the same edge of the match card is the forward edge while being conveyed by the said conveyor belts, and means for delivering match cards to the uppermost conveyor belt.

In testimony that I claim the foregoing as my invention I have signed my name this 23 day of February 1923.

KARL PAUL GOTTSCHALK.