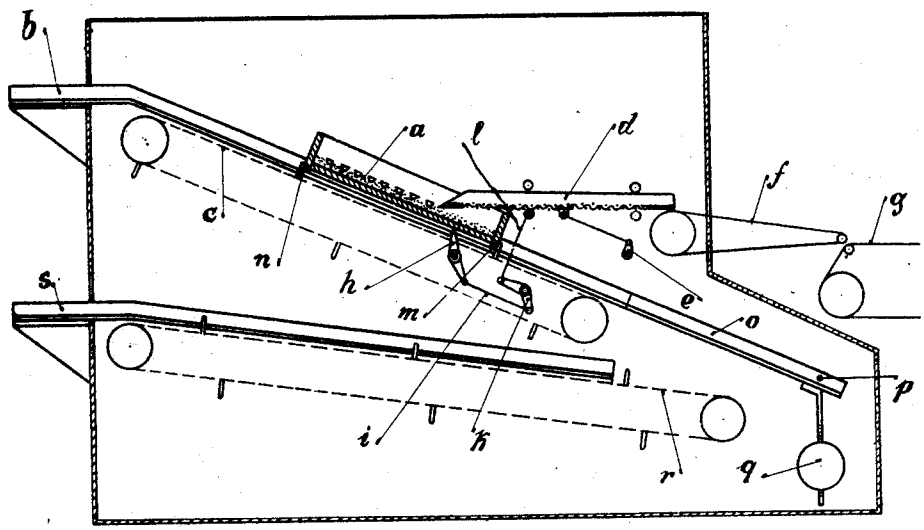
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DEVICE FOR DISCHARGING PRALINE CORES FROM THE POWDERING BOX

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DEVICE FOR DISCHARGING PRALINE CORES FROM THE POWDERING BOX.

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Praline cores, particularly those filled in with liquid, such as liqueur or the like are very frail and must be carefully handled. The object of the present invention is to produce a device whereby such articles can be safely removed from the box in which they are molded, and the invention consists in the provision of an inclined guideway for said box and of a vibratory sifting scoop arranged so as to enter the box when the latter is conveyed down the guideway and scoop up the praline cores while returning the molding powder to the box, means being provided for rocking the scoop so that it clears the edges of the box. A second guideway with conveyer band is provided for returning the emptied box.

The invention is illustrated in the accompanying drawing by a sectional view of the device.

Arranged in a suitable casing is an inclined guide way *b* for the box *a* in which the praline cores are molded. An endless conveyer band *c*, fitted with lugs, is arranged so as to engage the box and feed it down the guideway. Above the latter a sifting scoop *d* is arranged in a substantially horizontal position and so that the forward end of the scoop can enter the box *a* and scoop up the pralines from the latter. To enable the scoop to clear the edges of the box, the front portion thereof is supported by means of a rod *l* on a bell-crank *k*, and the latter is connected by a rod *i* to a double-armed lever *h* which is arranged in the path of the box. The walls *m* and *n* of the latter project so as to engage and rock the lever when the box edges pass, thereby lifting the end of the scoop so as to clear the edges. The scoop is shaken by means of a crank *e* so that the loose molding powder is fed back into the box *a* while the scooped up praline cores are fed backwards along the scoop by virtue of its vibratory movement. A conveyer band *f* receives the articles from the scoop and delivers them on to a second band *g* whereby they are conveyed to a dispowdering machine.

A second guideway *s* is arranged under the guideway *b* for returning the box *a* to the feeding end of the apparatus. For transferring the box from one guideway to the other a guide memebr *o* is provided which turns about a pivot *p* so that it can be put into alignment with either guideway. The member *o* is controlled by an adjustable weight *q* which normally holds it in alignment with the guideway *b*. When the box has been fed by the band *c* on to the guide member *o*, the latter trips under the weight and turns into alignment with the guideways *s*. A conveyer band *r* which travels quickly under the guideway *s* then engages the box and returns it along the latter guideway, the guide member *o* being restored by the weight *q* to the normal position as soon as it released from the box.

I claim:

1. A device for discharging praline cores from the mold box, comprising an inclined guideway for the box, an endless travelling band for conveying the box down the guideway, a sifting scoop arranged in the path of the box so as to scoop the praline cores out of the latter, means for lifting the front end of the scoop so as to clear the edges of the box, means for shaking the scoop so as to return the molding powder to the box and feed the praline cores along the scoop, and a conveyer band arranged so as to receive the praline cores from the scoop.

2. A structure as claimed in claim 1 wherein the means for lifting the end of the scoop consists of a lever arranged in the path of the box so as to be tripped by the end walls of the latter, a crank mechanism on which the end of the scoop is supported, and connection between said lever and said crank mechanism causing the end of the scoop to be raised when the lever is tripped by the box.

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