Sept. 8, 1953 W. PATZER 2,651,399

SLUG REJECTOR FOR COIN SELECTING DEVICES

Filed Feb. 27, 1951 2 Sheets-Sheet 1

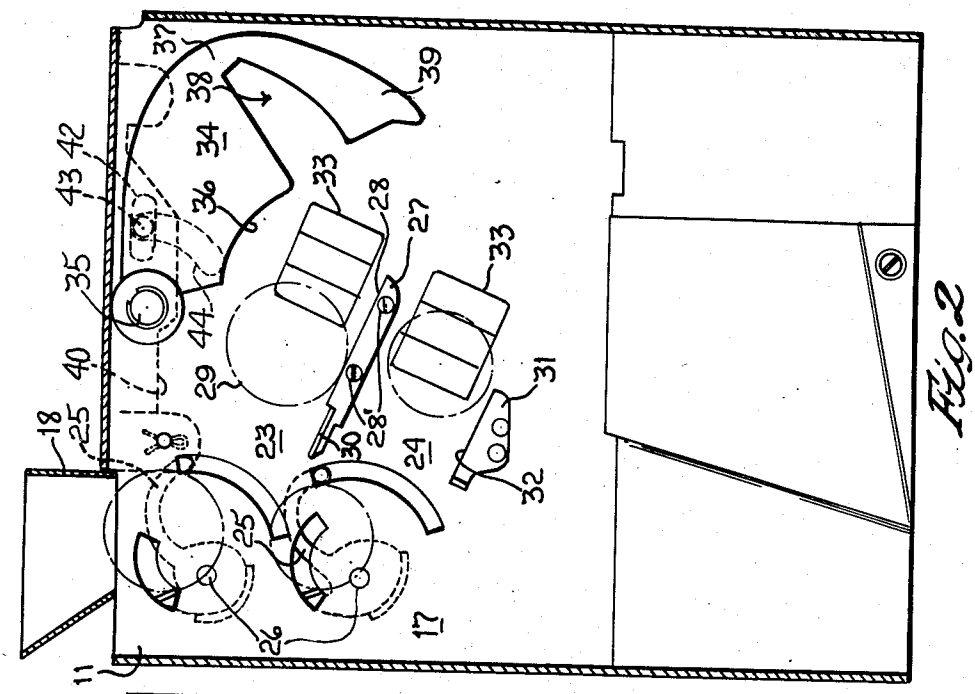


Fig. 2

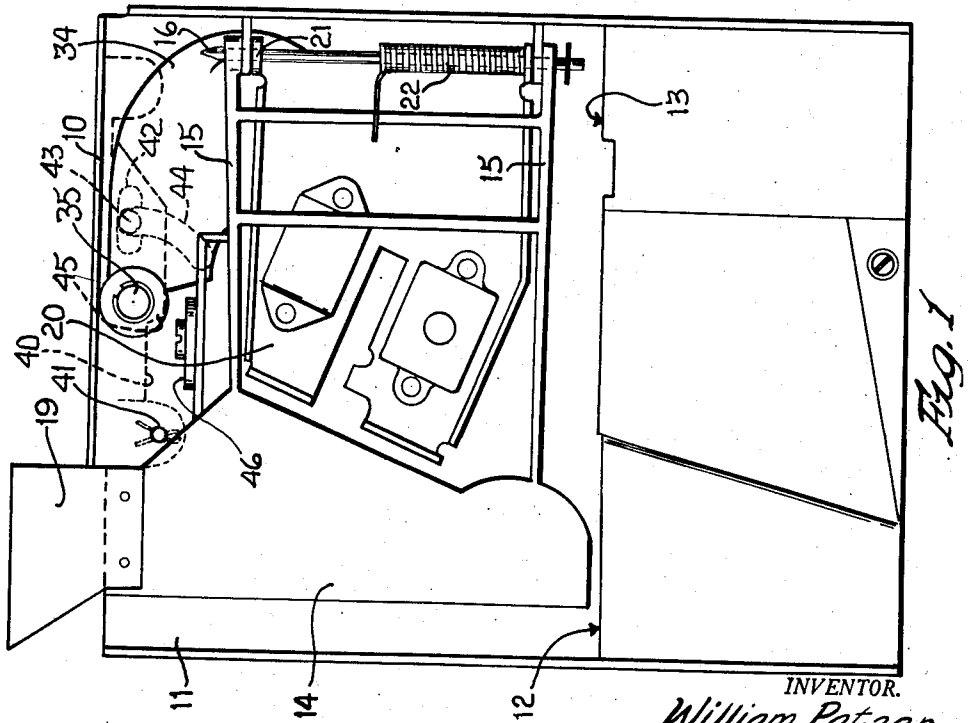


Fig. 1

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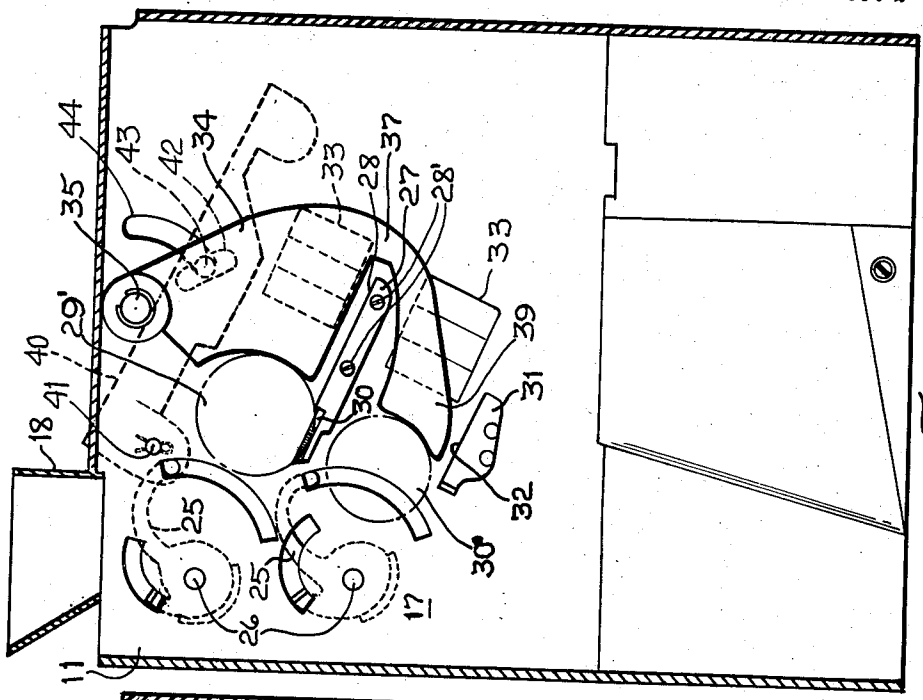


Fig. 4.

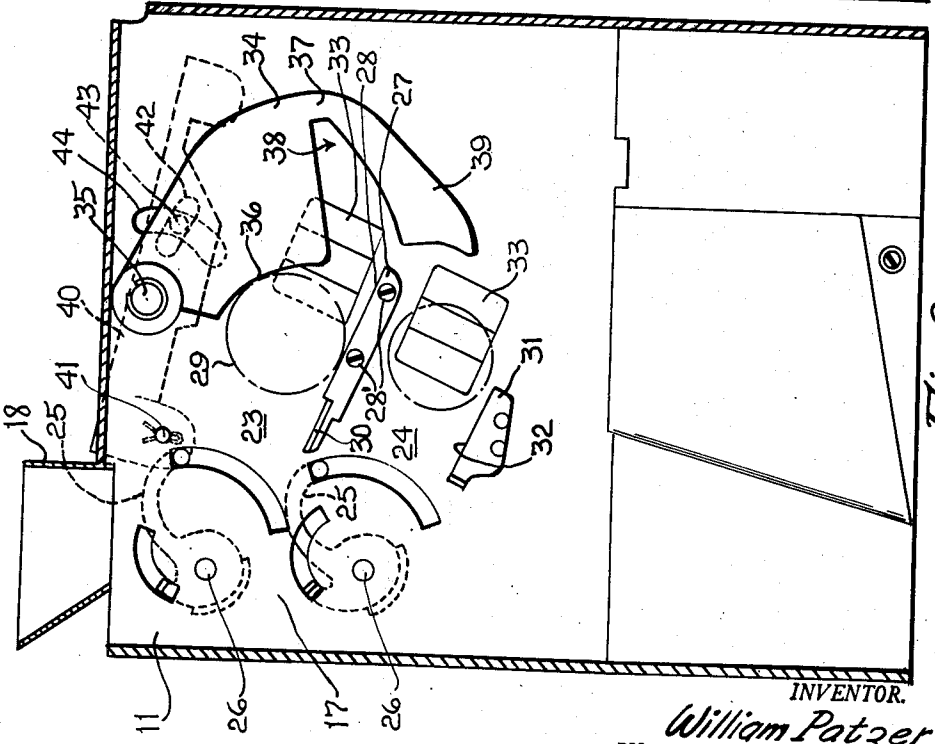


Fig. 3

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UNITED STATES PATENT OFFICE

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SLUG REJECTOR FOR COIN SELECTING DEVICES

William Patzer, Chicago, Ill., assignor to Clarence E. Threedy, Chicago, Ill., as trustee

Application February 27, 1951, Serial No. 212,914

1 Claim. (Cl. 194—101)

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My invention relates to new and useful improvements in a slug rejector for coin selecting devices and has for its principal object the provision of a simplified and economical arrangement for ejecting arrested slugs from the coin pathway of such device.

An object of the present invention is the provision of a sweep arm by means of which one or more arrested slugs in a coin pathway may be readily and easily ejected from said pathway into a rejection pathway.

Other objects will appear hereinafter.

The invention consists in the novel combination and arrangement of parts to be hereinafter described and claimed.

The invention will be best understood by reference to the accompanying drawings showing the preferred form of construction, and in which:

Fig. 1 is a side elevational view of a coin selector with which my invention is associated;

Fig. 2 is a vertical sectional detail view of the same;

Fig. 3 is a vertical sectional detail view similar to that shown in Fig. 2 but showing the parts thereof in different positions; and

Fig. 4 is a vertical sectional detail view similar to Fig. 3 but showing the parts thereof in different positions.

My improved slug rejector is especially adaptable for use in connection with coin selectors wherein there are employed several superimposed inclined coin pathways down which coins are adapted to gravitate and wherein it is desirable for effective operation of the coin selector to provide an arrangement for ejecting arrested slugs from either or both of the pathways.

To accomplish this and other objects of my invention I associate my improved slug rejector with a coin selector 10 of a well-known conventional construction which includes a stationary plate 11 providing a rejection pathway 12 and an acceptance pathway 13. A plate 14 is arranged in parallel spaced relation with the plate 11 and by means of arms 15 is hingedly connected to the plate 11 by means of a pintle 16. This plate 14 together with the plate 11 provides a coin receiving pathway 17. Coins are delivered to this pathway 17 by a short funnel 18 formed as an integral part of the stationary plate 11 and having one side wall 19 thereof connected to the plate 14 for movement therewith to dislodge any coins which might accidentally clog the funnel 18.

A plate 20 is arranged in spaced parallel relation with respect to the plate 11 and is mounted for pivotal movement relative to the plate 11 upon

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the pin 16 as at 21. A spring 22 yieldably holds the plates 14 and 15 in proper position with respect to the plate 11.

The plate 11 provides, together with the plate 20, superimposed coin pathways 23 and 24, the pathway 23 being adapted to receive coins of larger diameter than the pathway 24.

From the coin receiving pathway coins are delivered to the coin pathways 23 and 24 by coin gauging cradles 25 of a construction similar to that shown in my pending application, Serial No. 172,658. These cradles are pivotally secured as at 26 to the stationary plate 11 and operates substantially in a manner similar to that shown and described in my pending application above referred to.

A stationary plate 27 is fixed as at 28' to the stationary plate 11 and separates the uppermost coin pathway from the lowermost pathway 24. This plate is inclined with respect to the plate 11 and provides a track 28 for the coins 29. The end of the track 28 nearest the receiving pathway is beveled and inclined downwardly with respect to the surface of plate 11 as at 30 so as to present a track that will permit an arrested slug to be deflected away from the pathway 23.

A bar 31 is fixed to the plate 11 in an inclined position with respect thereto and in parallel spaced relation with respect to the plate 27 to provide a track 32 for coins gravitating down the pathway 24.

Slugs of magnetic properties are arrested in the coin pathways by magnets 33.

A sweep arm 34 has one end pivoted to the plate 11 as at 35. Such sweep arm provides a curved leading edge 36 which is adapted to engage an arrested slug in the coin pathway 23. This sweep arm has a bifurcated end portion 37 to provide a slot 38 and an arm 39. The arm 39 is adapted to engage slugs arrested in the coin pathway 24. The slot 38 provides a clearance for the plate 27 when the sweep arm 34 is moved to the position shown in Fig. 4 to eject arrested slugs 29' and 30' from the coin pathways 23 and 24 for passage into the rejection pathway 12.

The sweep arm is pivoted by means of an operating lever 40 pivoted to the plate 11 as at 41. This operating lever 40 has an elongated slot 42 formed therein for the reception of a pin 43 carried by the sweep arm 34 and movable in a slot 44 formed in the plate 11. This operating lever 40 is pivoted in a manner well-known in the art, see, for example, Patent 2,292,628. Likewise in a manner well-known in the art the edge 45 thereof will engage a disc 46 carried by the plate

14 whereby to pivot the plate outwardly to clear any obstructions in the coin receiving pathway or in the funnel 18.

By the arrangement just described an arrested slug may be ejected from either of the coin pathways 23 and 24. If a slug is arrested in each of the said pathways at the same time, the sweep arm will simultaneously eject such slugs from such pathways.

From the description herein it is apparent that I provide a simple and effective arrangement for ejecting one or more arrested slugs from coin testing pathways.

While I have illustrated and described the preferred form of construction for carrying my invention into effect, this is capable of variation and modification without departing from the spirit of the invention. I, therefore, do not wish to be limited to the precise details of construction set forth, but desire to avail myself of such variations and modifications as come within the scope of the appended claim.

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

A device of the class described comprising two confronting plates providing therebetween superimposed inclined coin pathways down which coins are adapted to gravitate, means for delivering coins to each of said pathways, means for arresting magnetic slugs in said pathways, a stationary plate fixed to one of the plates and separating said pathways and providing a track for coins gravitating down the uppermost of said pathways, a stationary bar fixed to said one plate and providing a track for the lowermost of said pathways, a sweep arm movable between said confronting plates, means for moving said sweep arm between said confronting plates, said sweep arm having a leading edge adapted to engage a slug arrested on the track in the uppermost pathway and having a slotted portion extending transversely thereof to provide an arm engageable with a slug arrested on the track in the lowermost pathway, said slotted portion providing a clearance for the track in the uppermost pathway when said arm is moved to push arrested slugs off the tracks, said uppermost track at its end portion nearest the means for delivering coins to said track having a portion of its top edge beveled downwardly and outwardly with respect to said one plate to deflect arrested slugs from the track when said slugs are pushed away from the magnetic arresting means by said sweep arm.

WILLIAM PATZER.

References Cited in the file of this patent

UNITED STATES PATENTS

Number	Name	Date
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2,292,628	Fry	Aug. 11, 1942