

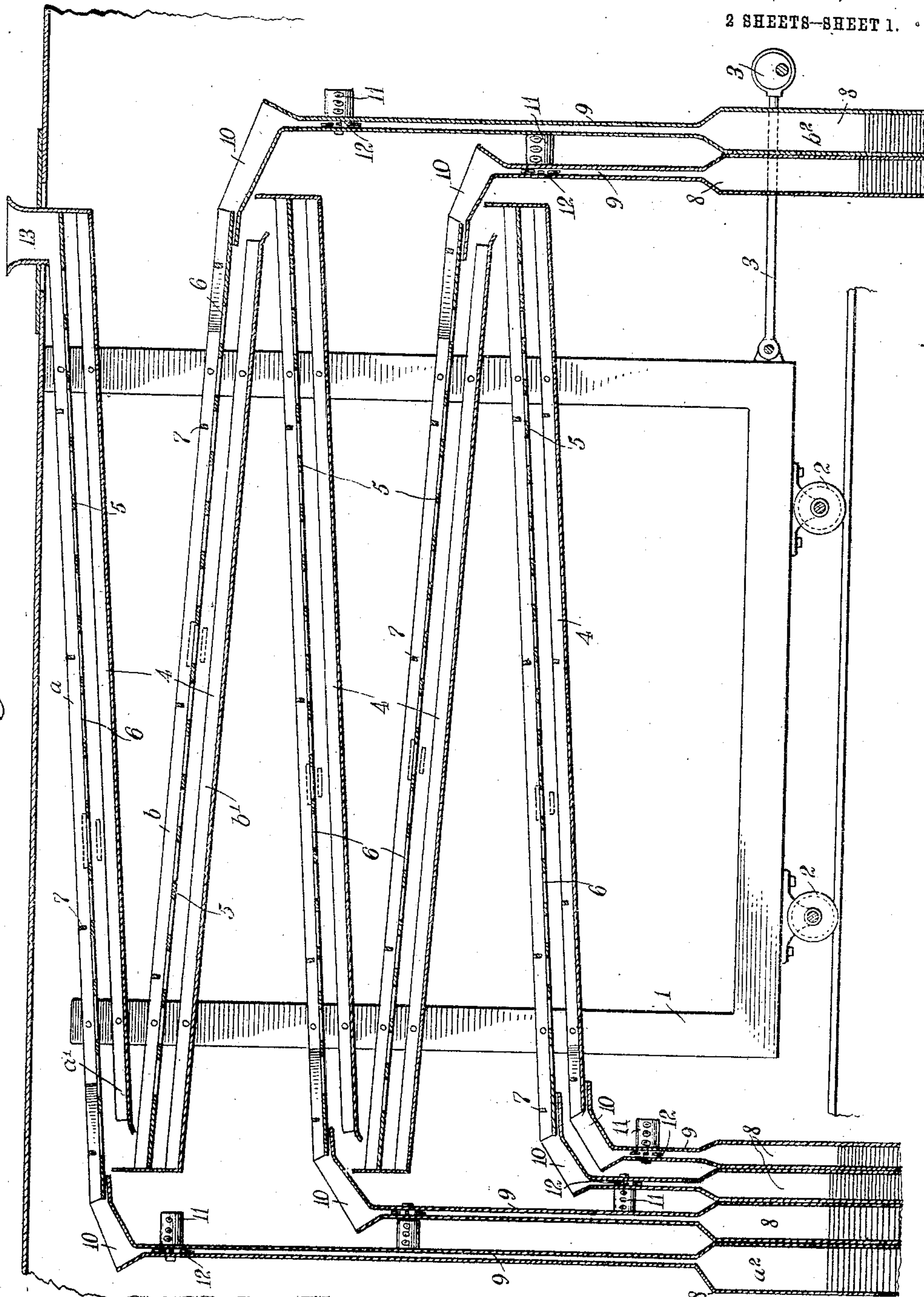
A. J. NOTT.
 COIN HANDLING APPARATUS.
 APPLICATION FILED APR. 7, 1910.

986,939.

Patented Mar. 14, 1911.

2 SHEETS—SHEET 1.

Fig. 1.



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2 SHEETS—SHEET 2.

Fig. 2.

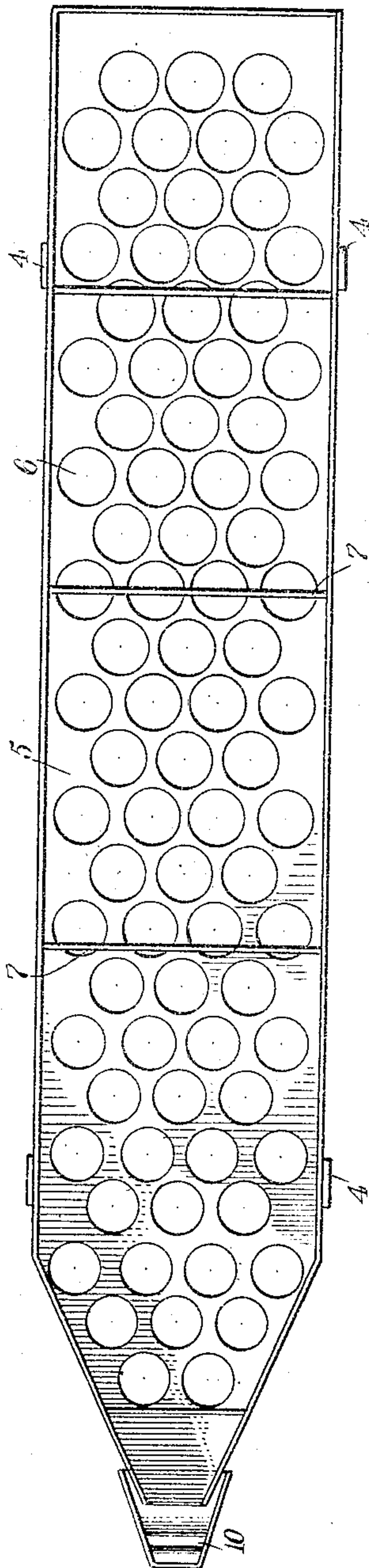


Fig. 4.

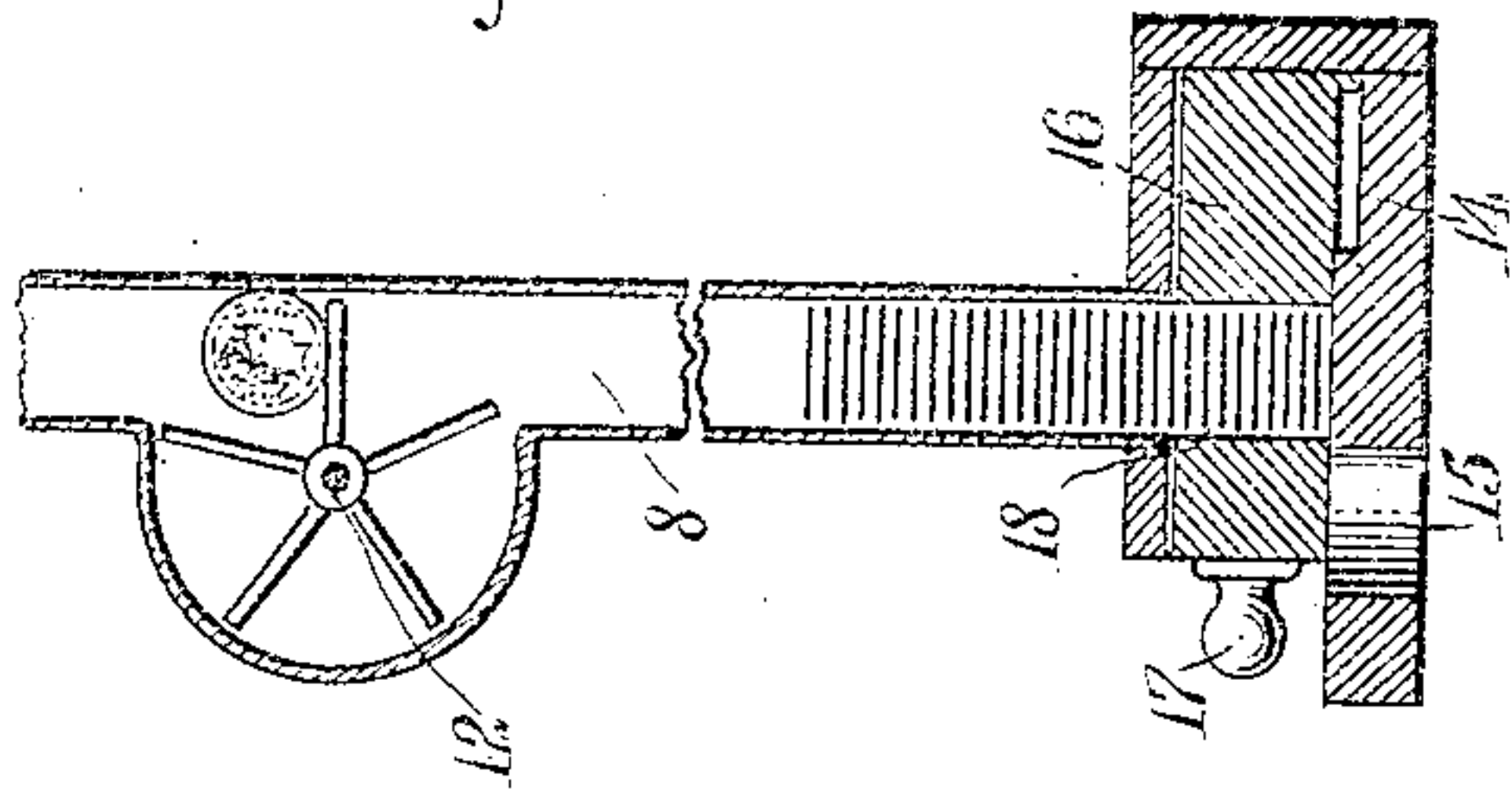
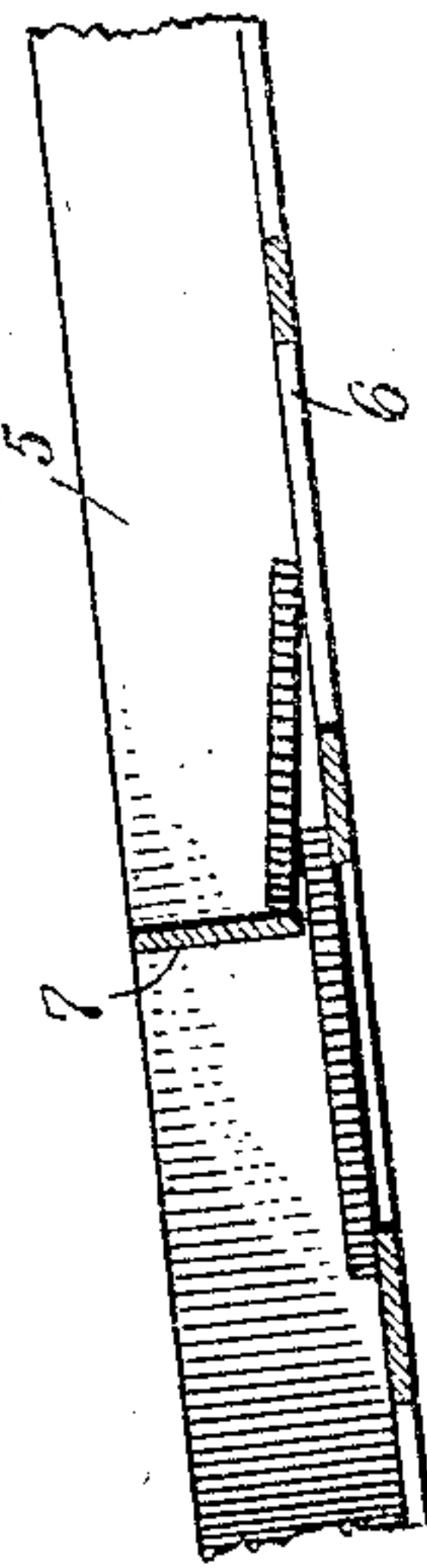


Fig. 3.



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UNITED STATES PATENT OFFICE.

ALBIN J. NOTT, OF NEW ORLEANS, LOUISIANA.

COIN-HANDLING APPARATUS.

986,939.

Specification of Letters Patent.

Patented Mar. 14, 1911.

Application filed April 7, 1910. Serial No. 553,950.

To all whom it may concern:

Be it known that I, ALBIN J. NOTT, a citizen of the United States, and a resident of New Orleans, in the parish of Orleans and State of Louisiana, have invented a new and Improved Coin-Handling Apparatus, of which the following is a full, clear, and exact description.

My invention relates to coin-handling, more particularly to a device for sorting and counting coins, and has for an object to sort out coins of various sizes and deposit the same sized coins in hoppers respectively provided therefor, each coin being automatically registered before passing into the hopper, so that a complete tally of the individual sized coins is recorded. For the purpose mentioned, use is made of a series of inclined chutes having baffles therein and provided with perforated slides having receiving hoppers at their ends to receive the coins therein, the said hoppers being so arranged as to receive coins of similar size only, and means on the hoppers for registering the number of coins in the hopper, and means for vibrating the chutes, to facilitate the movement of the coins down the mentioned chutes.

Reference is to be had to the accompanying drawings forming a part of this specification, in which similar characters of reference denote corresponding parts in all the views, and in which—

Figure 1 is a sectional side view of my device; Fig. 2 is a plan view of one of the chutes, showing the perforated slide therein; Fig. 3 is a fragmentary sectional side view of one of the slides, disclosing one of the baffles to illustrate the use of the same, and Fig. 4 is a fragmentary sectional side view of one of the hoppers, showing the registering means and the manner in which the coins are removed from the hopper.

Referring more particularly to the various views, I employ a frame 1, mounted on wheels 2 and provided with a hinged eccentric 3 for connection with suitable driving means for transmitting a vibrating motion to the frame 1. A series of inclined chutes 4 are mounted on the frame 1, as shown in Fig. 1, and mounted in the chutes 4 are perforated slides 5, the perforations 6 in the slides decreasing in size in each slide from the top one down. Numerous baffles 7 are provided in the chutes 4 and depend therein to within a short distance of

the slides 5. The chutes 4 are arranged so that any coins sliding down the top chute will drop onto the slide of the next chute and so on down, as will be hereinafter more fully described. The slides 5 project a distance beyond the ends of the chutes 4, and mounted to connect with the ends of the slides are receiving hoppers 8, having entrance tubes 9 and mouths 10. Registering means 11, consisting of cyclometric mechanisms operated by wheels 12, mounted in the tubes 9, are provided on the hoppers 8 to register each coin as it passes into the hopper adapted for its particular size. At the upper end of the upper chute 4 an opening 13 is provided, and into which the coins to be sorted and counted, are dropped. The lower ends of the hopper 8 are provided with bases 14 having circular openings 15 therein of a size equal to or larger than the size of the coin adapted for the particular sized hoppers. Drawers 16 having handles 17 and holes 18 therein, are provided to slide on the bases 14. Thus when the hoppers 8 fill up, the drawers can be pulled outwardly and the coins contained in the holes in the drawers are dropped through the openings 15.

For the purpose of conveniently describing the operation of my device, it will probably be well to denote the various operative parts by small letters.

The frame 1 is first made to vibrate or oscillate by the driving means connected with the eccentric 3, and a number of coins are then dropped into the opening 13. Owing to the vibrating movement of the frame 1, the coins will move down the slide *a*. Now the perforations 6 in the slide *a* being of a large size, all coins smaller than the perforations, will drop through the same onto the chute *a*¹, and those coins larger than the perforations will drop into the hopper *a*². Now, the coins which drop onto the chute *a*¹ move downward on the chute *a*¹ and fall onto the slide *b*. As before, the coins larger than the perforations in the slide *b* will drop into the hopper *b*², and the smaller coins will drop onto the chute *b*¹, down which they will slide and drop onto the next lower slide. This operation continues on all the slides and chutes, and as there are as many sized hoppers provided as there are different sized coins, all the coins will eventually drop into their respective sized hoppers. As the coins enter the tubes 9 of the hoppers 8, they

engage a wheel 12 of a register 11, and as each coin engages the wheel the count is recorded on the register 11, and a tally of the number of coins in each hopper can be conveniently shown. Sometimes it happens that when the coins are dropped into the opening 13 or drop from a slide to a chute, two or more of the coins will become attached to each other and, therefore, a small coin on a larger coin would be carried into the hopper intended to receive only large coins. To obviate this, the baffles 7 are provided, and depend within the slides sufficiently to allow for the thickness of a coin on the slides, so that when two or more coins enter the apparatus and are in any manner attached to each other, they quickly become detached when they strike the baffles 7, as will be easily seen by referring to Fig. 3.

From the foregoing description it will be seen that an efficient and convenient coin-handling apparatus is provided, and it will be further seen that my device can be so shown or inclosed in a glass casing that the complete operation of the apparatus can be seen at all times.

It will be distinctly understood that I do not limit myself to the uses to which my de-

vice can be applied nor do I limit myself to the construction shown, the scope of my invention being disclosed in the appended claim.

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

A coin handling apparatus comprising a frame mounted on wheels, reciprocating means engaging the frame to reciprocate the same, inclined chutes rigidly mounted on the frame one above the other, with the lower end of one chute discharging into the upper end of the next chute, perforated slides on the chutes and extending a distance beyond the lower ends of the chutes, hoppers disposed to receive the discharge of the slides, baffle plates on the said chutes and extending transversely the entire width of the chutes, and means for registering the number of coins received by the hoppers.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

ALBIN J. NOTT.

Witnesses:

J. MAXIME QUEYROUZE,
JOHN P. BLANCA.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."