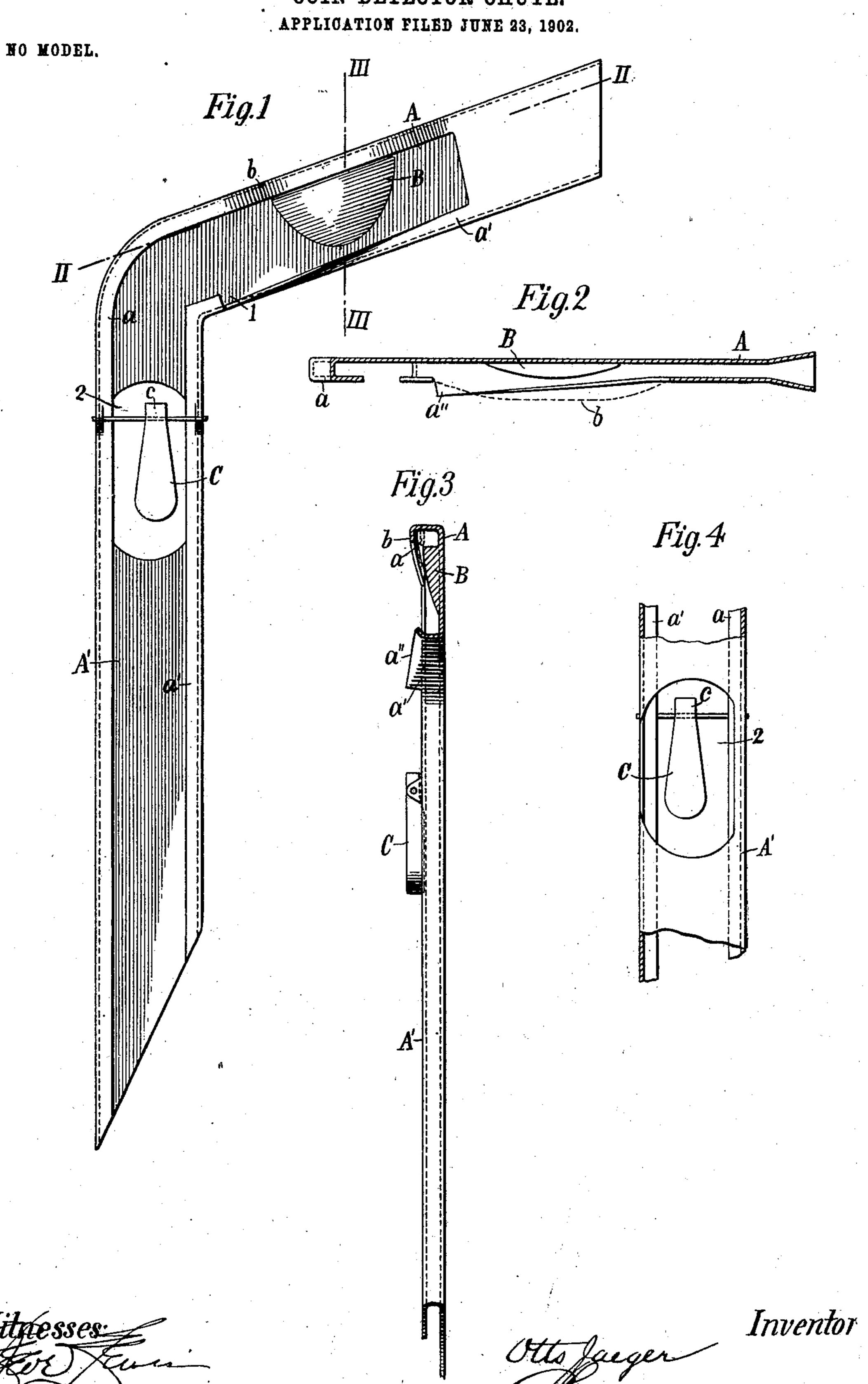
O. JAEGER.

COIN DETECTOR CHUTE.



employed as above by tilting the machine so

that the spring will lie on the lower side of

times serves to depress the spring out of the

way to permit the penny to roll past it and

down the chute, or a wire may be forced past

the spring and on down the chute. In place

cam B, swelling gently from the surface of

the side wall of the chute fore and aft, as

seen in Fig. 2, and with its outer profile like-

wise inclining gently upward from the bot-

ward and extending as far as the normal po-

sition of flange a, as seen in Fig. 3. This

portion of flange a, however, is carried off to

one side at b. (See dotted line in Fig. 2.)

tion as well as the positive action, both of

which are lacking when a spring is employed.

The conformation of cam B throws the top

This construction produces the uniform ac- 70

of a spring, then, I employ a solid block or 60

United States Patent Office.

OTTO JAEGER, OF PHILADELPHIA, PENNSYLVANIA.

COIN-DETECTOR CHUTE.

SPECIFICATION forming part of Letters Patent No. 732,746, dated July 7, 1903.

Application filed June 23, 1902. Serial No. 112, 919. (No model.)

To all whom it may concern:

Be it known that I, Otto Jaeger, of Philadelphia, Pennsylvania, have invented new and useful Improvements in Coin-Detector 5 Chutes, which are fully set forth in the fol-

lowing specification.

This invention relates to that class of apparatus intended to be operated by a nickel, but which unscrupulous persons can someto times operate otherwise than by the proper coin.

The object of the present invention is to insure that the apparatus cannot be operated by a bent wire, a coin of less value than the 15 proper one, or otherwise "beat" by thoughtless or unscrupulous persons.

The invention consists in the addition of certain improvements to be pointed out.

My invention can best be understood by 20 reference to the accompanying drawings, in which—

Figure 1 is a side elevation of a coin-chute containing my improvements. Fig. 2 is a section through lines II II of Fig. 1. Fig. 3 25 is a front view taken through lines III III of Fig. 1, and Fig. 4 is a side elevation viewed from the rear of Fig. 1.

The chute is comprised of the approximately horizontal member A and the practi-30 cally vertical member A'. It is closed on one side and has on the other the two inturned flanges a a', which allow a nickel to pass along throughout the length of the chute, while securely preventing its escape to either 35 side. All this is as usual in coin-chutes. At

1 the lower retaining-flange a' is cut away or preferably bent outward, as at a'', (see Fig. 2,) so that the distance between the bottom edge of upper flange a and the face of 40 portion a'' exceeds the diameter of a penny and is very little less than that of the nickel. Such cut-away portion, in connection with a flat spring opposite, is a common device for ejecting a too-small coin. The objections to 45 this construction are twofold: The spring ac-

be too strong and prevent the passage even of the proper coin, while in another chute the spring may be too weak and will not invari-50 ably eject the smaller penny, particularly if the latter be vigorously "thumped" on inser-

tion. In the second place when a spring is l

tion is not uniform. In one apparatus it may

of the coin to one side, (careening it to the left, as in Fig. 3,) so that if the coin be too 75 small its upper edge will disengage flange a. Moreover, the too-small coin (being thus tilted) tends to run off on a curve (to the left) instead of straight ahead, and thus it is certain to pass out at enlargement 1 and fail to 80 enter member A' of the chute. A bent wire will not pass around block B and the lower member A' of the chute. Thumping the penny merely ejects it more forcibly out at enlargement 1, and turning the apparatus over on its 85 side scarcely ever permits the penny to roll past cam Band continue into member A'. If, however, by tilting the machine or otherwise a penny has run past block B, then the second feature of my invention comes into play. In 90 the vertical member A' of the chute a part of the side wall is cut away at 2. Opposite this opening 2, and preferably a trifle nearer one side of the opening than the other-that is, nearer flange a', for instance, than to flange 95 a—swings a weight or deflector C, pivoted, as shown, with a slight head c above its axis. When by tilting the machine over on its side or otherwise a penny has been juggled past block B, the same tilting action will swing 100 deflector C into the path through chute mem-

ber A' and will throw the penny out of the

chute. By placing the weight C nearer one

edge of the chute the coin is given a slant or

the chute the weight of the penny some- 55

tom to present an inclined cam-surface to- 65

twist, so as to insure its ejection from even a comparatively small opening 2. Should the machine be tilted to the other side, so as to swing weight C out of the way, then the head so is interposed. These two features of my invention may be used separately; but I prefer to employ them conjointly in one and the same chute. Changes in details of construction and arrangement may likewise be made without departing from the spirit of my invention.

Having thus described my invention, I claim—

1. A coin-detector chute comprising a substantially horizontal portion and a substantially vertical portion, said chute having in
its approximately horizontal member a cutaway portion with a cam-surface opposite
thereto, and having in its vertical member a
second cut-away portion with a weight swinging opposite thereto.

2. A coin-detector chute comprising a substantially horizontal portion and a substantially vertical portion, said chute having in its approximately horizontal member a cutaway portion with a solid deflector opposite thereto which presents a cam-surface inclined from the vertical, and in the vertical member

of said chute a second cut-away portion with a swinging deflector opposite thereto.

3. A coin-detector chute comprising a substantially horizontal portion and a substantially vertical portion, said chute having in its approximately horizontal member a cutaway portion with a cam-surface opposite 35 thereto, and having in its vertical member a second cut-away portion with a swinging deflector opposite thereto and nearer to one of the edges of said chute.

4. A coin-detector chute comprising a sub- 40 stantially horizontal portion and a substantially vertical portion, said chute having in its approximately horizontal member a cutaway portion with a solid deflector opposite thereto which presents a cam-surface inclined 45 from the vertical, and in the vertical member of said chute a second cut-away portion with a swinging deflector opposite thereto and nearer to one of the edges of said chute.

In testimony whereof I have signed this 50 specification in the presence of two subscribing witnesses.

OTTO JAEGER.

Witnesses:

Daniel A. Mooney, Howard P. Hoffmann.