

(No Model.)

F. W. BOSSERT.

SAVING BOX.

No. 329,706.

Patented Nov. 3, 1885.

Fig. II.

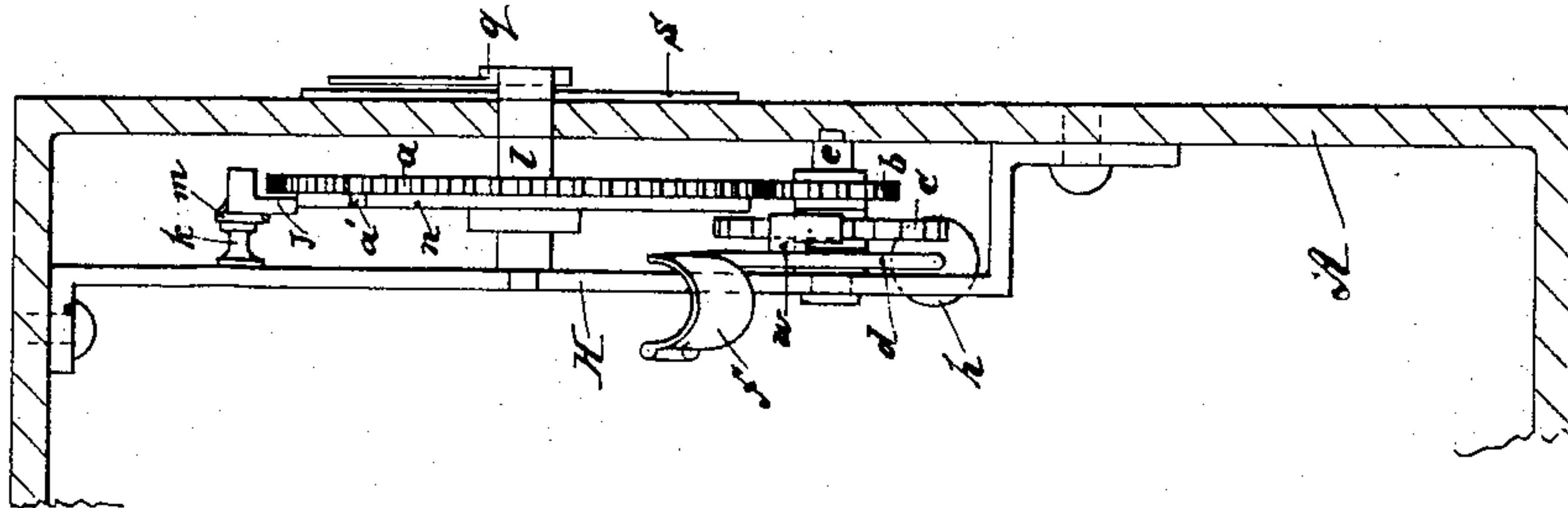
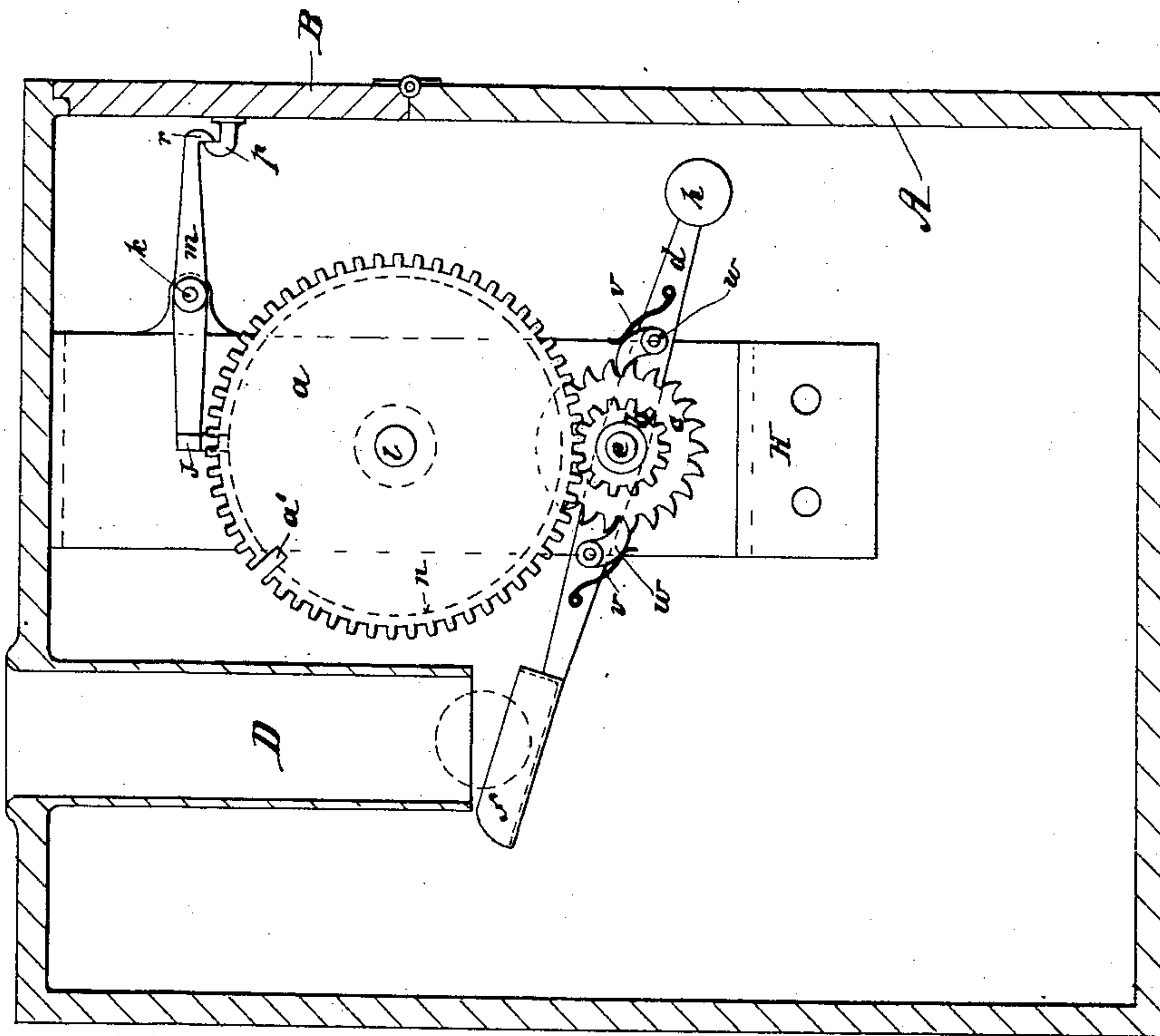


Fig. I.



WITNESS:

C. L. Green
Gustav Berger

INVENTOR

Friedrich Wilhelm Bossert

BY

Henry C. Rader
ATTORNEY

UNITED STATES PATENT OFFICE.

FRIEDRICH WILHELM BOSSERT, OF OFFENBACH-ON-THE-MAIN, HESSE,
GERMANY.

SAVING-BOX.

SPECIFICATION forming part of Letters Patent No. 329,706, dated November 3, 1885.

Application filed October 14, 1884. Serial No. 145,516. (No model.)

To all whom it may concern:

Be it known that I, FRIEDRICH WILHELM BOSSERT, a subject of the Grand Duke of Hesse, residing at the city of Offenbach-on-the-Main, in the Grand Duchy of Hesse, German Empire, have invented a new and useful Improvement in Money-Saving Boxes with Self-Acting Mechanism, of which the following is a specification.

The nature of my invention consists in a saving-box provided with an internal mechanism connected to the door of the box, so as to securely fasten the door at the inside until a certain number of coins have been introduced into the box, when the mechanism will disengage itself from the door, allowing the same to be opened to take out the coins.

In the accompanying drawings, Figure I represents a section of a box with the front removed, showing a front view of the mechanism. Fig. II is a side view of the same.

Similar letters refer to similar parts in both figures.

A represents a saving-box provided with a hinged door, B, through which access may be had to the inside for taking out the coin deposited in the box when said door is open. To the inside of this door B a hook, *p*, is securely fastened, with which the hook *r* of a lever, *m*, engages to keep the door securely fastened at the inside until the mechanism acts upon this lever *m*, so as to disengage its hook *r* from the hook *p*. A suitable plate or frame, H, is arranged and fastened to the inside of the box A supporting the spindle *l* and the spindle *e*. To the spindle *l* a gear-wheel, *a*, is securely fastened, into which a pinion, *b*, turning loosely on the spindle *e*, works. To the pinion *b* a ratchet-wheel, *c*, is securely fastened, close to which a lever, *d*, turning loosely on the spindle *e*, is arranged, provided with suitable pallets, *w w*, with springs *v v*, working into the teeth of the ratchet-wheel *c*. The lever *d* has on one end a suitable counter-weight, *h*, and at its other end a trough, *f*, open at its outer end. The wheel *a* has at one side a rim, *n*, and a deep recess, *a'*, is made in the circumference of the wheel *a* and the rim *n*. The lever *m*, which turns freely on a fixed center, *k*, has on one end the hook *r*, which connects with the hook *p* on the inside of the door B, as above mentioned,

and at its other end a projection, J, the lower part of which rests upon the rim *n*, and the upper part passes, while the lower part rests upon said rim, clear above the teeth of the wheel *a*. The usual oblong tube, D, through which the coins are passed into the box A, is arranged to terminate directly above the open trough *f*. The counter-weight *h* is of such a size as to keep the lever *d* in the position shown in Fig. I, if not otherwise acted upon. When a coin is dropped into the tube D, the same will fall into the trough *f*, and thus move that end of the lever *d* downward, and thus allow the coin to fall into the bottom of the box A. By this downward motion of the lever *d* the pallets *w* will turn the ratchet-wheel *c*, as well as the pinion *b*, a certain distance around, and consequently move the wheel *a* a certain distance during this operation. As above mentioned, the projection J of the lever *m* rests upon the rim *n* of the wheel *a*, and while in this position any movement of the mechanism will not affect this lever *m*, and which by its hook *r*, in connection with the hook *p* on the door B, will keep said door securely fastened. After a certain number of operations have been performed by the lever *d* the recess *a'* in the periphery of the rim *n* and wheel *a* will come in a line with the projection J at the end of the lever *m*, when said projection will fall down into this recess *a'*, moving thereby the other end of the lever *m* upward, so as to bring its hook *r* clear of the hook *p*, when the door B may be opened, and the coins in the box A can be taken out of the same. When the box has been emptied, the projection J must be lifted out of the recess *a'* and the wheel *a* turned sufficiently around to bring the projection J to rest again upon the rim *n*, when, by closing the door B, the hook *r* can be made to spring over the hook *p*, and thus secure the door again until the movements of the mechanism bring the recess *a'* again in line with the projection J. The relative proportions of the pinion *b* and wheel *a*, or the number of teeth in each, will determine the number of operations the lever *d* shall make before the recess *a'* shall come in a position for the lever *m* to move, and thus allow the door B to be opened. The spindle *l* may project through the side of the box A, and be

provided at its end with an index-handle, *g*,
indicating upon a dial-face, *s*, which may be
attached on the outside of the box, or painted
upon the same, the number of operations the
5 lever *d* has made, and consequently the num-
ber of coins that have been dropped into the
box.

What I claim as my invention, and desire to
secure by Letters Patent, is—

10 The combination of lever *d*, provided with
trough *f* at one end and counter-weight *h*
at the other end, spring-pallets *w w*, attached
to the lever *d*, ratchet-wheel *c*, pinion *b*, gear-
wheel *a*, with rim *n*, having recess *a'* in pe-

riphery of rim *n*, and wheel *a* and lever *m* with 15
projection *J* at one end and hook *r* at the other
end, with the hook *p* at the inside of a door,
B, of a saving-box, A, arranged to operate
in the manner and for the purpose substan-
tially as described. 20

In testimony that I claim this as my own
I have signed hereunto my name in the pres-
ence of two subscribing witnesses.

FRIEDRICH WILHELM BOSSERT.

Witnesses:

J. GRUND,
A. S. HOGUE.