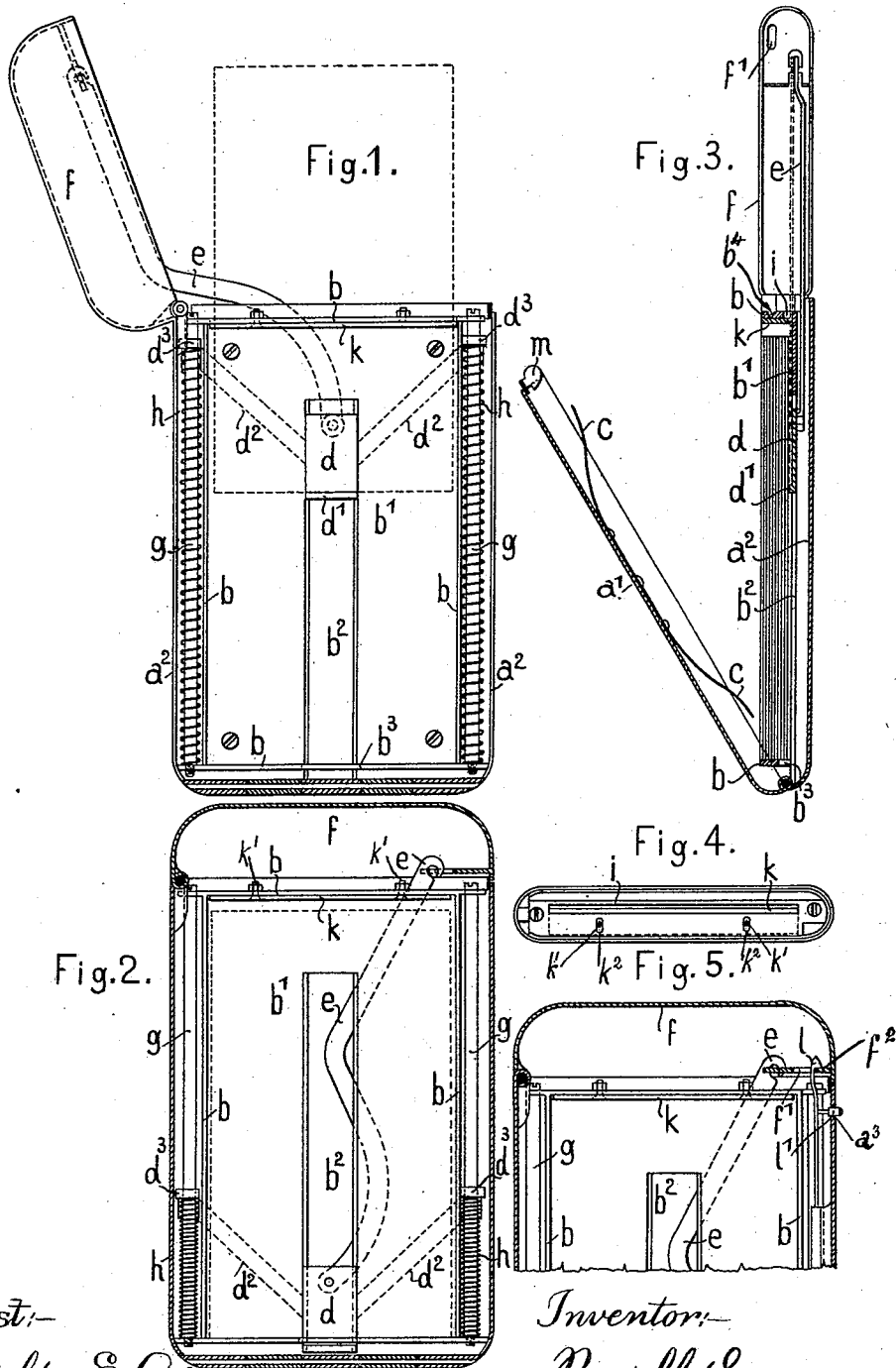


(No Model.)

R. SENNER.
CARD CASE.

No. 470,079.

Patented Mar. 1, 1892.



Attest:-

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UNITED STATES PATENT OFFICE.

RUDOLF SENNER, OF PFORZHEIM, GERMANY, ASSIGNOR OF ONE-HALF TO
THE FIRM OF H. DREWS, OF SAME PLACE.

CARD-CASE.

SPECIFICATION forming part of Letters Patent No. 470,079, dated March 1, 1892.

Application filed September 14, 1891. Serial No. 405,665. (No model.)

To all whom it may concern:

Be it known that I, RUDOLF SENNER, a subject of the Grand Duke of Baden, residing at Pforzheim, in the Grand Duchy of Baden, have invented a new and useful Automatic Apparatus to be Employed in Combination with Pocket Card-Cases and Like Receptacles, whereof the following is a specification.

This invention relates to apparatus to be employed in combination with pocket-receptacles for cards and other like articles for the purpose of automatically pushing the cards or other articles out of the receptacle one by one and presenting them in a convenient position for removal by hand. The apparatus is so arranged that by the act of closing the lid a spring pusher or ejector is pushed down and caused to engage by means of a small projection or claw with the undermost card, for example, of a series contained in a receptacle made in two parts in such a manner that when the lid is released the action of the previously-compressed springs connected with the ejector causes the ejector, together with the card, to be pushed upward, so that the card projects from the case; and in order that my said invention may be fully understood I shall now proceed more particularly to describe the same, and for that purpose shall refer to the several figures on the annexed sheet of drawings, the same letters of reference indicating corresponding parts in all the figures.

Figure 1 of the accompanying drawings illustrates an elevation partly in section—a pocket card-case, for example—provided with automatic delivery mechanism according to my invention, the lid being represented in the open position with a card pushed out in readiness for removal. Fig. 2 is a similar view of the apparatus with the lid in the closed position. Fig. 3 represents the apparatus in vertical section with the lid in the open position and illustrating the action of the hinged side, hereinafter described. Fig. 4 represents the apparatus in plan, the lid being removed. Fig. 5 is a vertical section of the upper part of the apparatus, showing the fastening of the lid.

The case is composed of two halves a' and a'' , hinged together, the part a'' being provided

internally with a receptacle b for the reception of the articles to be automatically delivered—such as visiting-cards—having a side b' , and the part a' being provided with a blade-spring c , which when this side of the receptacle is closed exerts a certain amount of pressure on the cards. In the side b' of the receptacle there is a slot b'' , in which works an ejector d , jointed to a curved rod e , which connects it with a lid f , hinged to the part a'' . The ejector d is provided at its lower extremity with a small projection or claw d' and is provided on both sides with arms d'' , formed with eyes d''' , capable of sliding upon rods g , attached to the upper and lower extremities of the case. Between the said eyes and the bottom of the case helical springs h are inserted, which are compressed when the ejector is pressed down.

In the lower side of the receptacle there is an opening b''' , enabling the ejector to be pushed down sufficiently to allow its projection or claw d' to engage with the bottom edge of the card, and in the upper side of the receptacle there is a slot i , Figs. 3 and 4, through which the card is protruded when the ejector ascends. The width of this slot must be adjusted according to the thickness of the cards. For this purpose an adjustable plate k is employed, being attached by screws k' , working in elongated openings or slots k'' in the upper side of the receptacle, Fig. 4. Fig. 5 shows the fastening of the lid. A spring hook or catch l is attached to the half a' of the case and when the lid is closed engages with a plate f'' through the opening f' in the plate, which is attached to the lid f . The hook or catch is provided with a push-pin l' , protruding through an opening a''' in the side of the case. The two halves a' and a'' of the case are fastened together by means of a hooked knob or catch m , attached to the half a' and engaging with the corresponding recess b'' in the upper side of the receptacle b , which is sufficiently elastic to enable it to act as a spring-catch.

When a card having been pushed out by the action of the ejector into the position represented by dotted lines in Fig. 1 has been removed from the case, the lid is shut down

and retained in the closed position by the catch *l*. This movement of the lid causes the ejector *d* to be pushed down to its lowest position, Fig. 2. The helical springs *h* are com-
 5 pressed and the blade-spring *c* presses the cards against the side *b'* of the receptacle. Now when the lid is released by pressing the push-pin *l'*, Fig. 5, the helical springs *h* come
 10 into action, the ejector *d* and lid *f* are pushed up, and the card resting upon the claw of the ejector is pushed out, as represented in Fig. 1.

The apparatus hereinbefore described is of a convenient form for the pocket and greatly facilitates the delivery of visiting-cards and
 15 the like. The form of the apparatus may be modified according to the purpose for which it is employed.

What I claim, and desire to secure by Letters Patent of the United States, is—

20 1. A case having a lid and an ejector connected with the lid, provided with a projection or claw by which the contents of the case are lifted when the lid is raised, substantially
 as described.

25 2. A case having a lid, an ejector provided with a projection or claw by which the contents of the case are lifted, and an adjustable plate for regulating the size of the opening
 30 through which the contents are passed, substantially as described.

3. The combination, with a case having a lid, of the receptacle having a slot in the side thereof, an opening at the bottom thereof, and a slot in the top thereof, and the ejector pro-

vided with a projection or claw by which the 35 contents are lifted, substantially as described.

4. The combination of the case having a hinged lid, the receptacle formed with a side slot, with an opening at the lower end and
 40 with a slot at its upper end, a spring for forcing the contents toward the side of the receptacle, and the ejector provided with a projection or claw by which the contents are lifted,
 substantially as described.

5. The combination of the case having a 45 hinged lid, the rods, the springs surrounding the rods, the receptacle, and the ejector jointed to the lid, formed with a rod, with a projection or claw, and with arms having eyes sliding on
 50 the rods, substantially as described.

6. The combination of a case having two parts hinged together and a lid hinged to one
 55 of the parts, a spring on one of the parts, and an ejector connected with the lid, provided with a projection or claw by which the contents of the case are lifted when the lid is
 raised, substantially as described.

7. The combination of the case *a' a²*, the lid *f*, the receptacle *b b' b² b³ i*, the spring *c*, the rods *g*, the springs *h*, and the ejector *e d d' d² d³*,
 60 substantially as described.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

RUDOLF SENNER.

Witnesses:

HEINRICH EBERLE,
 AUGUST HÜF.