

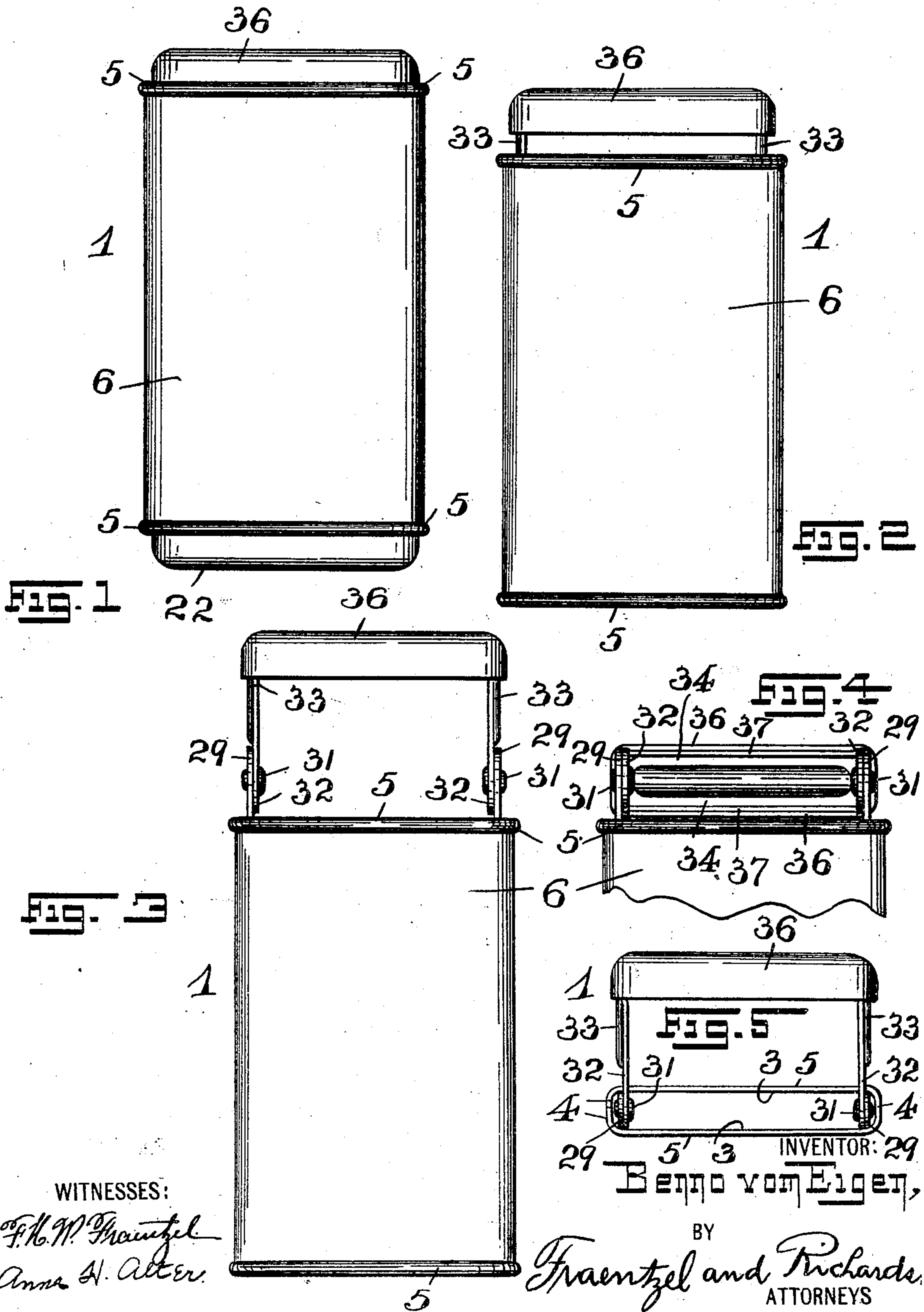
No. 886,688.

PATENTED MAY 5, 1908.

B. VOM EIGEN.
MATCH BOX AND OTHER RECEPTACLE.

APPLICATION FILED AUG. 24, 1907.

4 SHEETS—SHEET 1.



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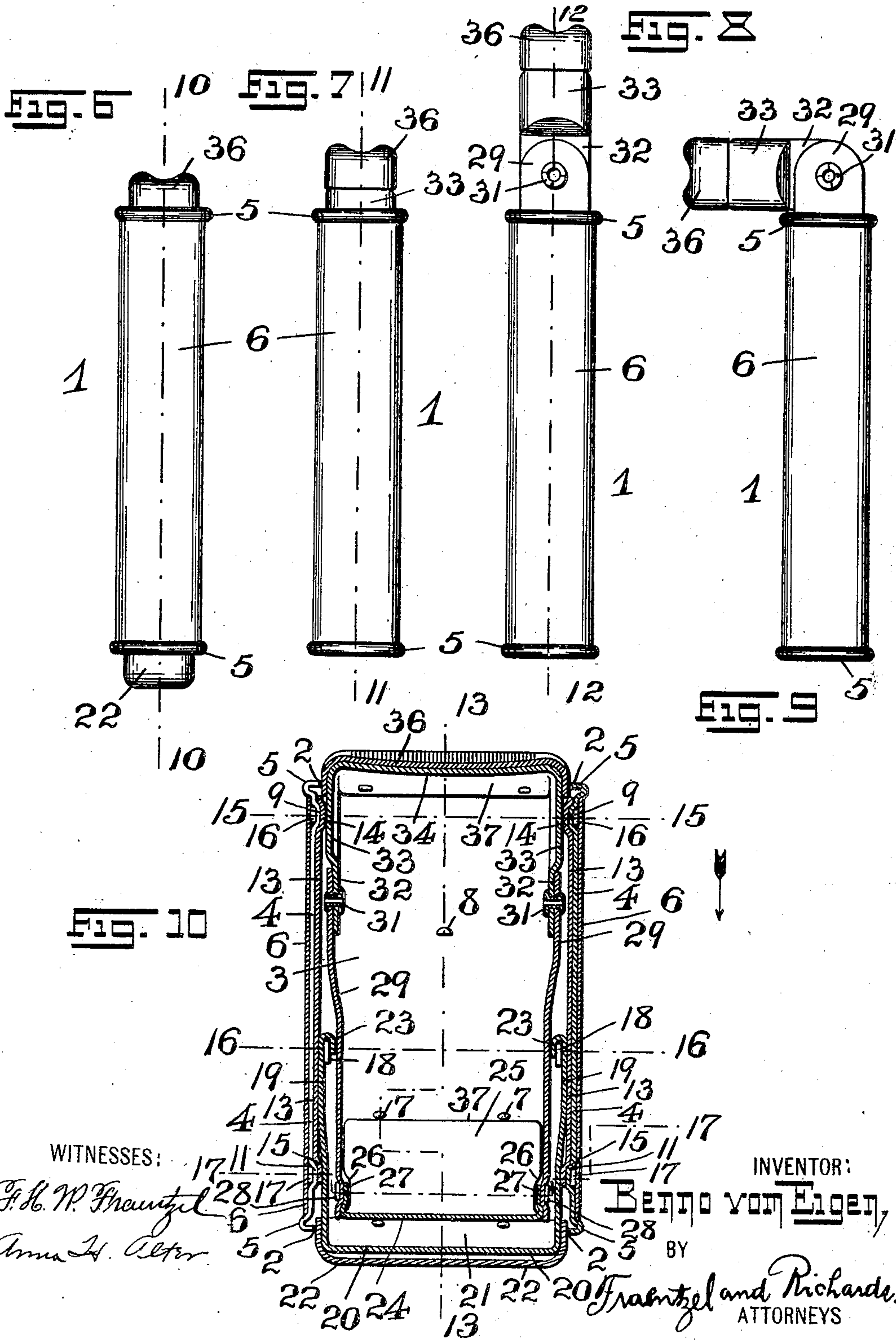
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4 SHEETS—SHEET 3.

FIG. 11

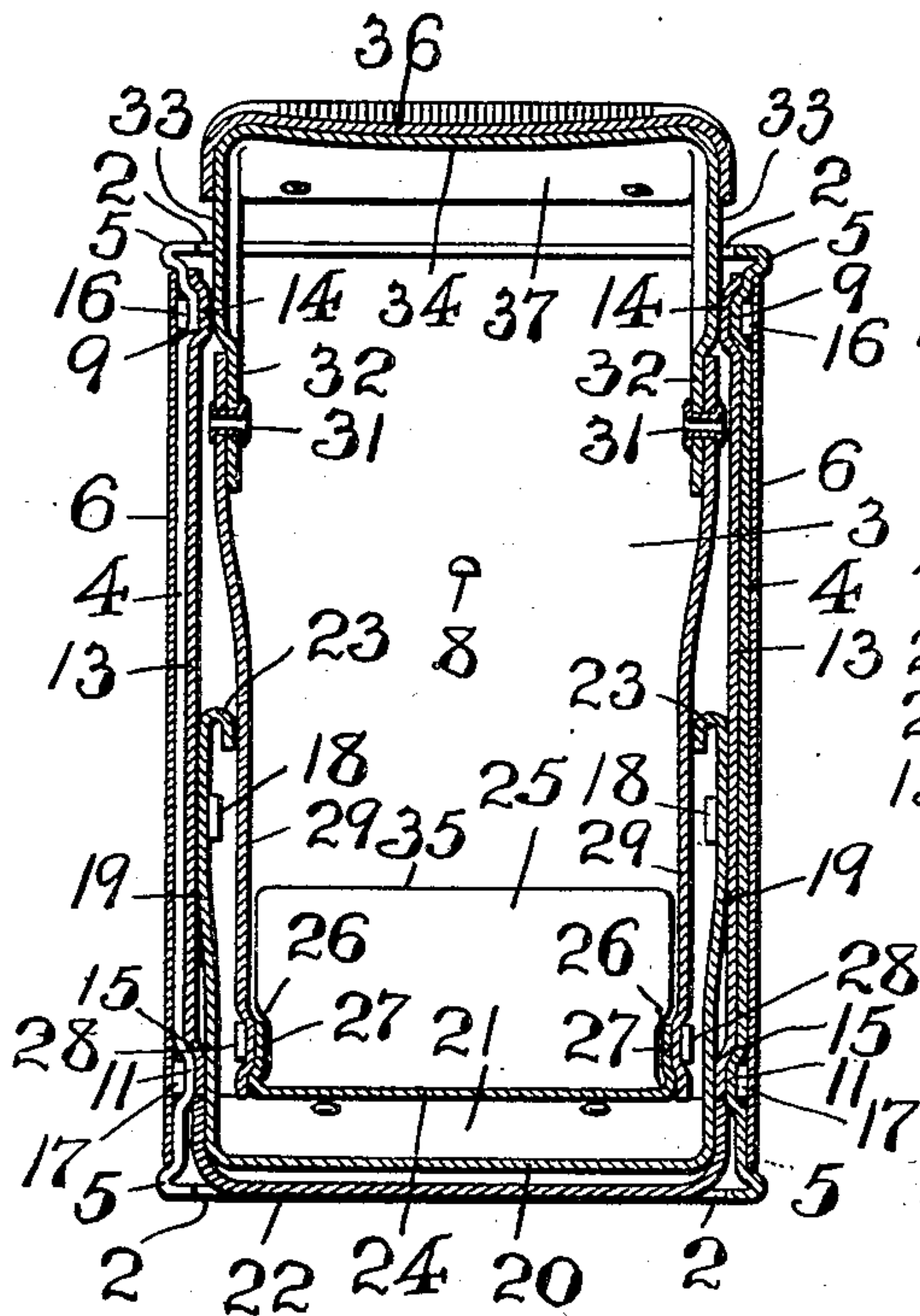


FIG. 12

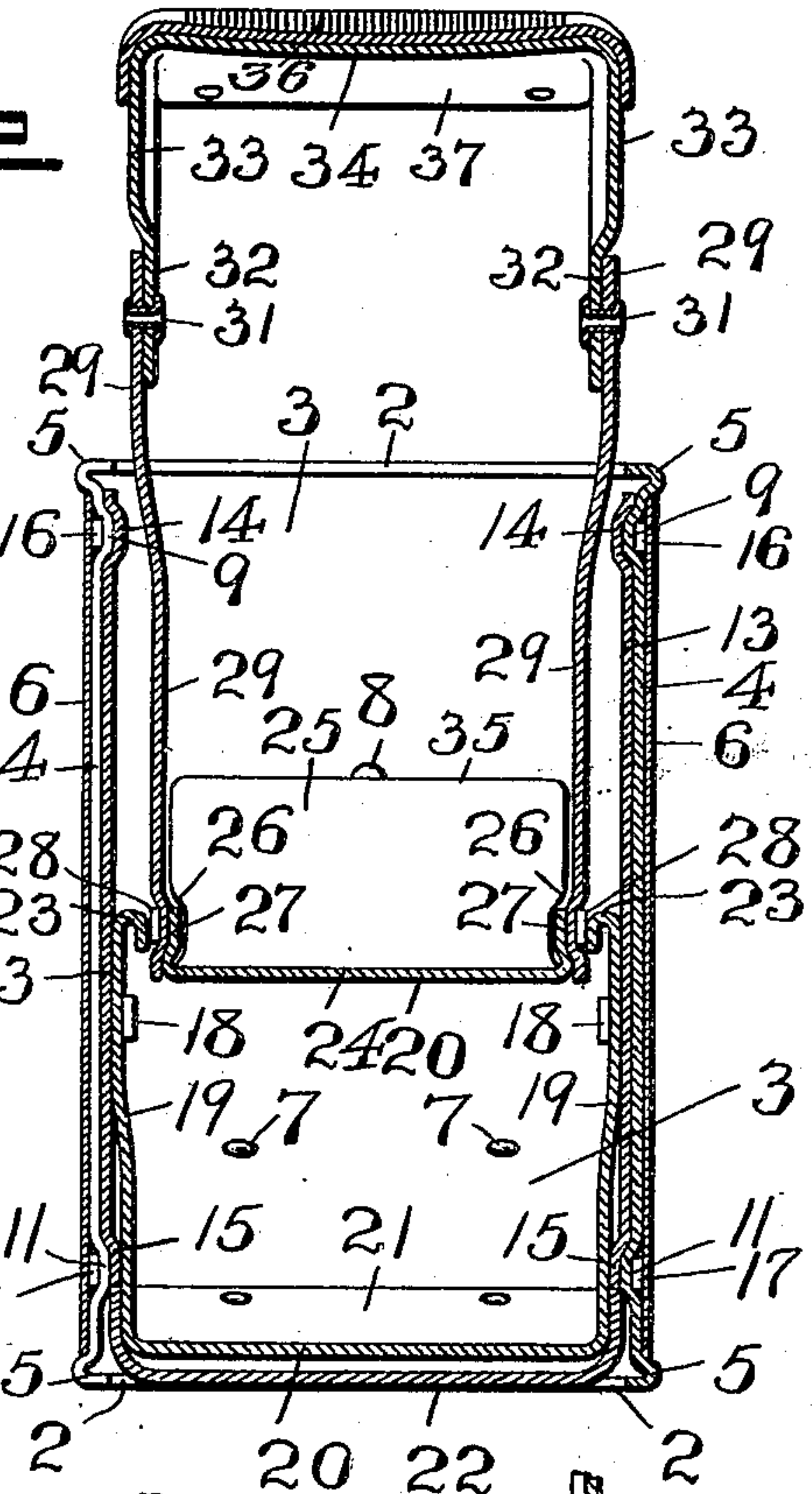


FIG. 13

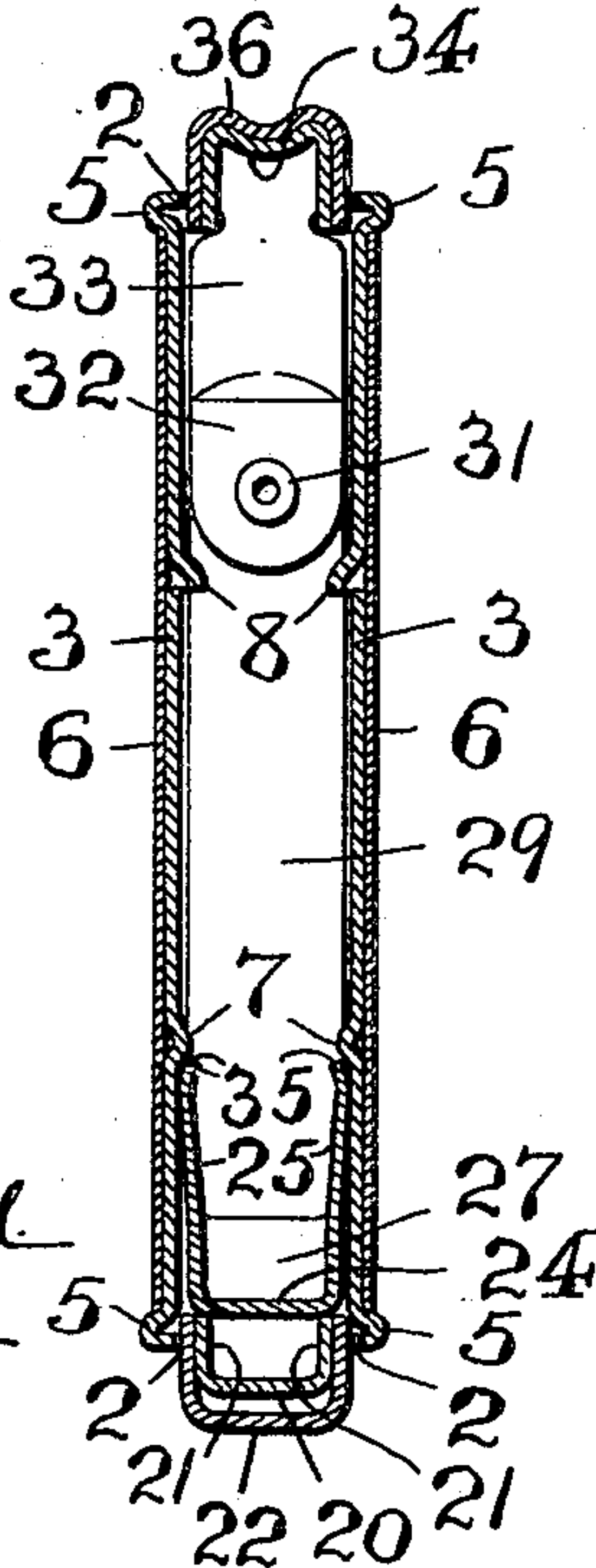
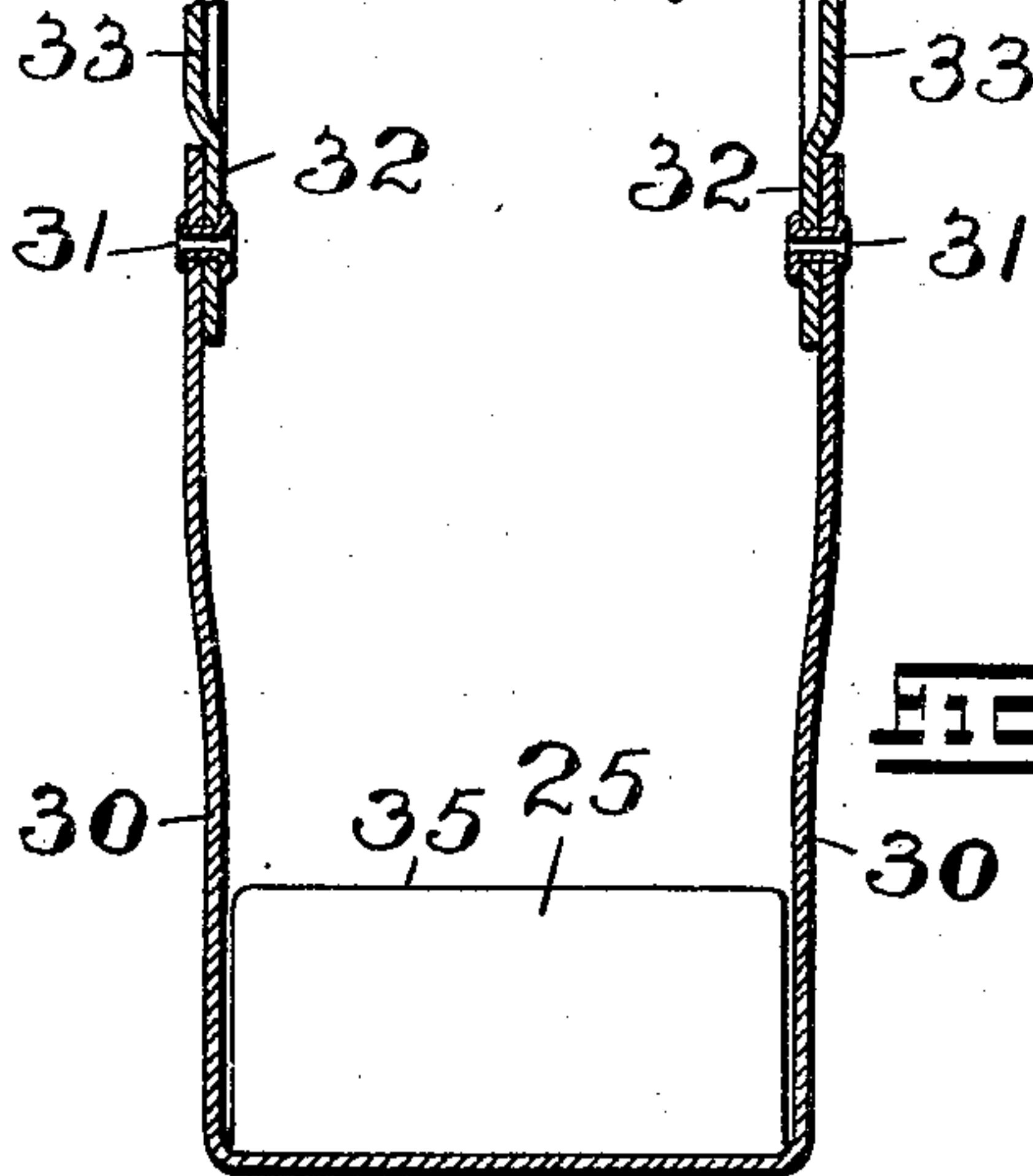


FIG. 14



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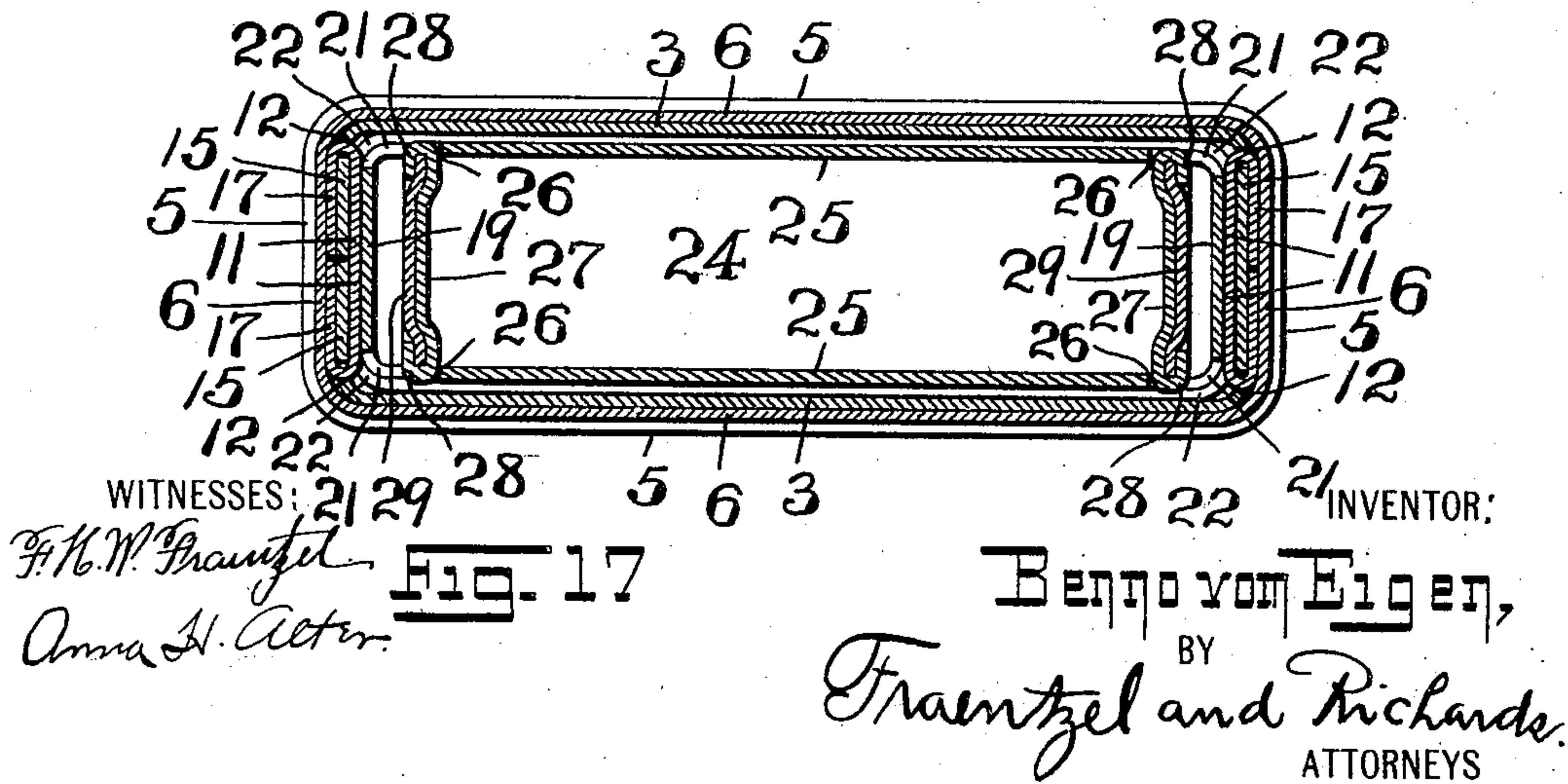
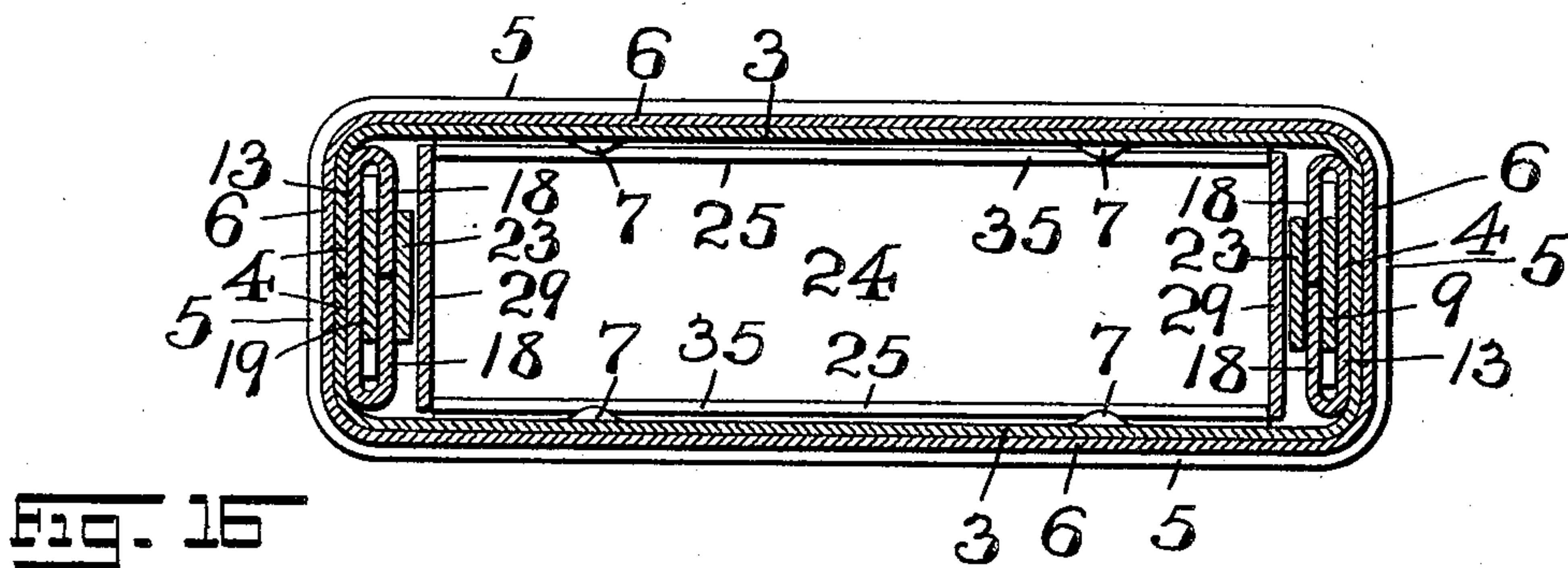
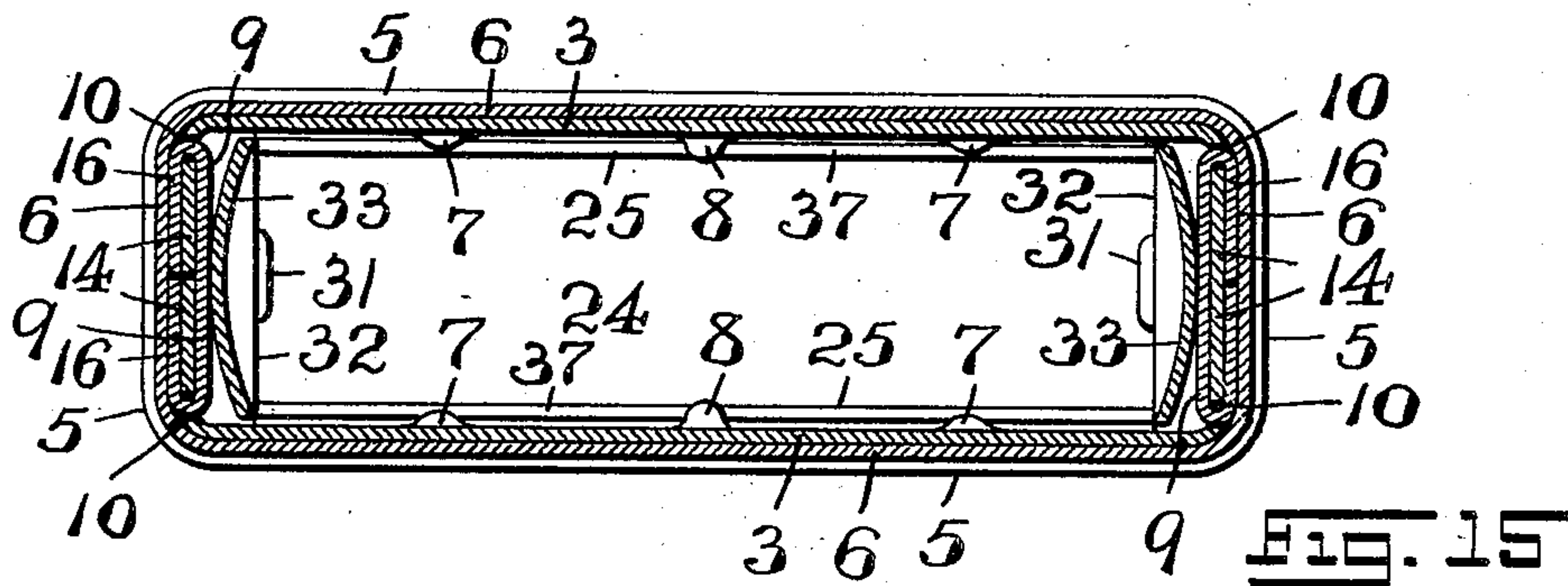
PATENTED MAY 5, 1908.

B. VOM EIGEN.

MATCH BOX AND OTHER RECEPTACLE.

APPLICATION FILED AUG. 24, 1907.

4 SHEETS—SHEET 4.



UNITED STATES PATENT OFFICE.

BENNO VOM EIGEN, OF NEWARK, NEW JERSEY, ASSIGNOR TO AUG. GOERTZ & CO.,
A CORPORATION OF NEW JERSEY.

MATCH-BOX AND OTHER RECEPTACLE.

No. 886,688.

Specification of Letters Patent.

Patented May 5, 1908.

Application filed August 24, 1907. Serial No. 390,002.

To all whom it may concern:

Be it known that I, BENNO VOM EIGEN, citizen of the United States, residing at Newark, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Match-Boxes and other Receptacles; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to characters of reference marked thereon, which form a part of this specification.

The present invention has reference, generally, to improvements in match-boxes and other similar receptacles which are adapted to be carried in the pocket; and, this invention relates, more particularly, to a novel construction of match and other box or receptacle, comprising an outer main casing or shell, which is open at both ends, and in which is slidably arranged an inner match-presenting means, one portion of which is provided with a closing element for the one open end of the main casing or shell, said match-presenting means being normally locked or immovably retained in said casing or shell, but being adapted to be released by means of an end-shell or piece which is movably arranged in the other open end of the main casing or shell.

The invention, therefore, has for its principal objects to provide a neat and simply constructed box, of the general character hereinafter set forth, the parts of which can be easily assembled and held in their normally locked engagement, but can be readily manipulated, so that, when the box is opened, the ends of the matches are presented in such a manner, so as to greatly facilitate the removal of said matches from the box; and, furthermore, the present invention provides a box in which the matches contained therein cannot accidentally become ignited when opening or closing the said box.

My present invention, therefore, consists in the novel match or other box hereinafter fully set forth; and, furthermore, this invention consists in the various novel arrangements and combinations of devices and parts, as well as in the details of construction of the same, all of which will be more fully described in detail in the accompanying specification, and then finally embodied in

the clauses of the claims, which are appended to and which form an essential part of the said specification.

The invention is clearly illustrated in the accompanying drawings, in which:—

Figure 1 is a side elevation of a match-box or like receptacle, embodying the principles of the present invention, illustrating the same in its closed condition; Fig. 2 is a similar view, showing the first movement in opening the said match-box or like receptacle. Fig. 3 is also a similar view, representing a further operation of the parts of the match-box or like receptacle, when opening the same; and Fig. 4 is a detail side view or elevation, with the end-piece, top or cover-portion of the match-box or like receptacle turned to one side, to permit the removal of the matches or other articles contained therein. Fig. 5 is a top view of the said match-box or like receptacle, with the cover or top-portion in the position represented in said Fig. 4. Figs. 6, 7, 8 and 9 are side-edge views or elevations of the said match-box or like receptacles as shown, respectively, in Figs. 1, 2, 3 and 4 of the drawings. Fig. 10 is a longitudinal vertical section, taken on line 10—10, in said Fig. 6. Fig. 11 is a similar section, taken on line 11—11 in said Fig. 7; and, Fig. 12 is a similar view taken on line 12—12 in said Fig. 8. Fig. 13 is a transverse section, taken on line 13—13 in said Fig. 10; Fig. 14 is a detail longitudinal vertical section of the sliding match-container or presenting means, illustrating a slight modification of the construction of the same. Fig. 15 is a horizontal cross-section of the said match-box or like receptacle, taken on line 15—15 in said Fig. 10; Fig. 16 is a similar section, taken on line 16—16 in the same figure; and, Fig. 17 is a similar section, taken on line 17—17 in said Fig. 10, all of said sections being made on enlarged scales.

Similar characters of reference are employed in all of the above described views, to indicate corresponding parts.

Referring now to the several figures of the drawings, the reference-character 1 indicates the complete match-box or similar receptacle embodying the principles of the present invention. This receptacle consists, generally, of a main casing, shell or body-portion, which is usually made of sheet-metal and comprises suitable side-faces 3

and end-edges 4, all arranged to provide a hollow body or shell, which is open at its opposite ends, as at 2, and preferably, is of a rectangular cross-section, substantially of the configuration shown in the several figures of the drawings. The open end-portions of the said main casing or shell 2 are usually surrounded by a marginal bead or ornamental rim 5, and the reference-character 6 indicates a suitable covering or envelop of leather or any other suitable material, which incases the said main casing or shell between the said beads. The side-face 3 of the main casing or shell are provided with suitably formed and inwardly extending projections 7 and 8, as clearly shown in Figs. 10, 11, 12, 13, 15 and 16 of the drawings, and the purposes of which will be more fully set forth in the following description. In the upper portion of each end-edge 4, as will be seen from Figs. 10, 11 and 12, is a suitably formed depression made by an inwardly pressed portion 9, said portion 9 being provided with a pair of lug or tongue-receiving openings or slots 10, shown in Fig. 15. In a like manner, in the lower portion of each end-edge or piece 4, as will be seen from an inspection of the same figures, is another suitably formed depression made by an inwardly pressed portion 11, said portion 11 being provided with a pair of lug or tongue-receiving openings or slots 12, shown in Fig. 17 of the drawings. Suitable bar-like guiding elements or plates 13 are arranged upon the inner face of each end-edge or piece 4, each bar or plate 13 being made with the inwardly extending raised portions 14 and 15, forming suitable depressions in the opposite faces of said bars or plates, in which the previously mentioned inwardly pressed portions 9 and 11 are respectively fitted, as shown in Figs. 10, 11 and 12. Contiguous to the raised portions 14 are rearwardly extending lugs or ears 16, and contiguous to the raised portions 15 are rearwardly extending lugs or ears 17, said lugs or ears 16 being passed through the openings or slots 10 and bent over into the depressions formed by the parts 9, and said lugs or ears 17 being passed through the openings or slots 12 and bent over into the depressions formed by parts 11, substantially in the manner shown in the several figures of the drawings. Thus it will be seen that each bar or plate 13, which forms a suitable guiding-element for the purposes to be presently described, is permanently secured upon the inner surface of an end-edge or piece 4 of the main shell or casing, one of said bars or plates serving at the same time as a means for connecting the abutting edge-portions 14 of the metal sheet from which the main casing or shell is made.

Each bar or plate 13 is also provided at a suitable point near its lower edge-portion with lugs or ears 18 extending outwardly

from the opposite edges of each bar or plate, and then being bent at right angles, so that the lugs or ears upon each bar or plate will extend toward each other, so as to provide a pair of retaining guides behind which are slidably arranged suitable plate-like arms 19 which extend upwardly from the opposite marginal edge-portions of an elongated end-member or element 20. The member or element, as will be seen, is made with the sides 21, and fitted upon and registering with said elongated end-member or element 20 is a correspondingly formed end-shell 22, the parts being suitably united and secured together, the said assembled parts being slidably arranged in the lower open end of the main shell or casing, and while acting as a closing device for said shell or casing, serving also as a push-device or means for releasing the match presenting device, as will presently appear. The arrangement of the said lugs or ears 18 is such that while the arms 19 slide freely in the guides thus provided, still there is sufficient frictional engagement between the parts, so that the push-device or means when forced into the positions indicated in said Figs. 11 and 12, will remain in said positions, until returned to the normal initial position, as will hereinafter more fully appear. To prevent the entire withdrawal or displacement of said push-device or means from the lower open end of the main casing or shell, each plate-like arm 19 is provided at its upper free end with a bent-over portion 23, thus providing suitable retaining hooks which engage with said lugs or tongues 18, when the parts are in their normal initial positions indicated more particularly in Fig. 10 of the drawings. Slidably arranged within said main shell or casing is the match-presenting means or container previously mentioned. This device, as will be seen from said Figs. 10 to 13 inclusive, comprises a lower box-like member or retaining element, which consists, essentially, of a suitable base or bottom 24, formed along its longitudinal marginal edges with upwardly extending side-flanges 25, which are preferably cut out, as at 26, said base or bottom being provided at its respective ends with upwardly extending tongues 27 extending into said cut out portions 26, and said tongues 27 being provided with suitable clamping lugs 28, by means of which is secured to each tongue 27 the lower end-portion of an upwardly extending plate-like member or arm 29. In lieu of said tongues 27 and clamping lugs 28, arms 30 may be integrally connected with and extend upwardly from said base or bottom 24, as clearly shown in Fig. 14 of the drawings. Pivotaly connected to the upper end-portions of said members or arms 29 or 30, by means of suitable eyelets 31, or any other means of pivotal connection, are pair of short members or arms 32 which are preferably

provided with the convexed portions 33 at their upper ends and have connected therewith an elongated end-member 34. This end-member or element, as is shown in the drawings, is made with the sides 37, and fitted upon and registering with said elongated end-member 34 is a correspondingly formed end-shell 36, the parts being suitably united and secured together and these assembled parts being slidably arranged in the upper open end of the main shell or casing, so as to serve as a removably disposed closure or cover for the upper open end of the receptacle, as will be clearly understood.

Having thus in a general manner set forth the construction of my novel form of match-box and other receptacle, I will now briefly set forth the manner of operating the various devices and parts for the purpose of presenting a match, or other article.

Supposing the parts after having been assembled to be in their normal initial positions indicated in Figs. 1, 6 and 10 of the drawings, and it is desired to get at the contents of the box or receptacle. All that is necessary is to exert a slight pressure upon the outer end-portion of the end-closing shell 22, whereby the upper marginal edge-portions of the sides 21 of the end-member or element 20, upon which the base or bottom 24 of the lower box-like element or retaining element rests, and in which the ends of the matches are supported, will force the upper marginal edges 35 of the spring-like plates or side-flanges 25 over the projections or protuberances 7, until the upper surrounding edge-portions of the shell 22 come in contact with the lower ends of the previously mentioned bars or plates 13, and whereby the movements of the parts are arrested, and the various parts will have assumed the relative positions indicated in Figs. 2, 7 and 11 of the drawings. This upward movement has caused the end-shell 36, and the arms connected therewith, to be projected from the upper open end of the main shell or casing, indicated in Figs. 2 and 7 of the drawings, and by taking hold of these parts and using them as a pull-piece, they can be moved still further, until the marginal edges 35 of the spring-plates or side-flanges 25 are brought against the projections or protuberances 8, which act as stops and therefore arrest the further movements of the parts, which have thus been brought into the positions indicated in Figs. 3, 8 and 12 of the drawings. The pivoted or hinged portions can then be turned to one side, as shown in Figs. 4, 5 and 9, so as to more easily enable a person to withdraw a match, or get at such other contents that may be contained in the receptacle or box, as will be clearly evident.

To close the receptacle or box, all that is necessary is to return the laterally swung parts into their vertical position, and by

pushing the various parts back into the main shell or casing, they are quickly and easily brought back into their locked or retained relations shown in said Figs. 10 and 13 of the drawings, with the edge-portions 35 of the spring-plates or side-flanges 25 again sprung beneath the projections or protuberances 7 in holding engagement therewith, and whereby the various parts are once more immovably held in their normal initial positions, as will be clearly evident.

It will be seen from the foregoing description of my present invention, that I have produced a simple and effective arrangement and construction of devices and parts for the purposes of providing a match-box or other suitable receptacle, intended to be carried in the pocket, and which can be readily manipulated to get at the contents.

I am aware, that changes may be made in the arrangements and combinations of the various devices and parts, as well as in the details of the construction of the same, without departing from the scope of my present invention, as defined in the appended claims. Hence, I do not limit my invention to the exact arrangements and combinations of the devices and the parts thereof, as described in the foregoing specification and as illustrated in the accompanying drawings, nor do I confine myself to the exact details of the construction of any of the said parts.

I claim:

1. A match-box or other receptacle comprising a main shell provided with open ends, a closing device movably arranged within the one open end-portion of said main shell, a container slidably arranged within said shell, said container normally resting directly upon said closing device, and a second closing device movably arranged in the other open end of said shell and connected with said container, bar-like guiding-elements secured upon the inner surfaces of the end-edges of said main shell, guide-lugs upon each element, upwardly extending arms connected with said first-mentioned closing device, said arms being retained in their sliding relations to said bar-like elements by means of said guide-lugs, and means connected with said arms for limiting the movements of said closing device, substantially as and for the purposes set forth.

2. A match-box or other receptacle comprising a main shell provided with open ends, a closing device movably arranged within the one open end-portion of said main shell, a container slidably arranged within said shell, said container normally resting directly upon said closing device, and a second closing device movably arranged in the other open end of said shell and connected with said container, bar-like guiding-elements secured upon the inner surfaces of the end-edges of said main shell, guide-lugs upon each ele-

ment, upwardly extending arms connected with said first-mentioned closing device, said arms being retained in their sliding relations to said bar-like elements by means of said guide-lugs, and means connected with said arms for limiting the movements of said closing device, and means within said shell for limiting the movements of said container, substantially as and for the purposes set forth.

3. A match-box or other receptacle comprising a main shell provided with open ends, a closing device movably arranged within the one open end-portion of said main shell, a container slidably arranged within said shell, said container normally resting directly upon said closing device, and a second closing device movably arranged in the other open end of said shell and connected with said container, bar-like guiding-elements secured upon the inner surfaces of the end-edges of said main shell, guide-lugs upon each element, upwardly extending arms connected with said first-mentioned closing device, said arms being retained in their sliding relations to said bar-like elements by means of said guide-lugs, and means connected with said arms for limiting the movements of said closing device, and inwardly projecting protuberances upon the side-faces of said shell for limiting the movements of said closing device, and inwardly projecting protuberances upon the side-faces of said shell for limiting the movements of said container, substantially as and for the purposes set forth.

4. A match-box or other receptacle comprising a main shell provided with open ends, a closing device movably arranged within the one open end-portion of said main shell, a container slidably arranged within said shell, said container normally resting directly upon said closing device, and a second closing device movably arranged in the other open end of said shell and connected with said container, bar-like guiding-elements secured upon the inner surfaces of the end-edges of said main shell, guide-lugs upon each element, upwardly extending arms connected with said first-mentioned closing device, said arms being retained in their sliding relations to said bar-like elements by means of said guide-lugs, and a hook-shaped end-portion upon the free end of each arm adapted to be brought in limiting retaining engagement with the guide-lugs of each element, substantially as and for the purposes set forth.

5. A match-box or other receptacle comprising a main shell provided with open ends, a closing device movably arranged within the one open end-portion of said main shell, a container slidably arranged within said shell, said container normally resting directly upon said closing device, and a second closing device movably arranged in the other open end of said shell and connected with said con-

tainer, bar-like guiding-elements secured upon the inner surfaces of the end-edges of said main shell, guide-lugs upon each element, upwardly extending arms connected with said first-mentioned closing device, said arms being retained in their sliding relations to said bar-like elements by means of said guide-lugs, and a hook-shaped end-portion upon the free end of each arm adapted to be brought in limiting retaining engagement with the guide-lugs of each element, and means within said shell for limiting the movements of said container, substantially as and for the purposes set forth.

6. A match-box or other receptacle comprising a main shell provided with open ends, a closing device movably arranged within the one open end-portion of said main shell, a container slidably arranged within said shell, said container normally resting directly upon said closing device, and a second closing device movably arranged in the other open end of said shell and connected with said container, bar-like guiding-elements secured upon the inner surfaces of the end-edges of said main shell, guide-lugs upon each element, upwardly extending arms connected with said first-mentioned closing device, said arms being retained in their sliding relations to said bar-like elements by means of said guide-lugs, and a hook-shaped end portion upon the free end of each arm adapted to be brought in limiting retaining engagement with the guide-lugs of each element, and inwardly projecting protuberances upon the side-faces of said shell for limiting the movements of said container, substantially as and for the purposes set forth.

7. A match-box or other receptacle comprising a main shell provided with open ends, a closing device movably arranged in each open end-portion, an intermediately disposed container movably arranged in said shell, one of said closing devices being adapted to be moved against said container for moving the latter, bar-like guiding elements secured upon the inner surfaces of the end-edges of said main shell, guide-lugs upon each element, upwardly extending arms connected with said first-mentioned closing device, said arms being retained in their sliding relations to said bar-like elements by means of said guide-lugs, arms extending upwardly from said container, and arms extending downwardly from said second-mentioned closing device, and a means of pivotal connection between each set of upwardly and downwardly extending arms, substantially as and for the purposes set forth.

8. A match-box or other receptacle comprising a main shell provided with open ends, a closing device movably arranged in each open end-portion, an intermediately disposed container movably arranged in said

shell, one of said closing devices being adapted to be moved against said container for moving the latter, bar-like guiding elements secured upon the inner surfaces of the end-edges of said main shell, guide-lugs upon each element, upwardly extending arms connected with said first-mentioned closing device, said arms being retained in their sliding relations to said bar-like elements by means of said guide-lugs, arms extending upwardly from said container, and arms extending downwardly from said second-mentioned closing device, and a means of pivotal connection between each set of upwardly and downwardly extending arms, and means within said shell for limiting the movements of said container, substantially as and for the purposes set forth.

9. A match-box or other receptacle comprising a main shell provided with open ends, a closing device movably arranged in each open end-portion, an intermediately disposed container movably arranged in said shell, one of said closing devices being adapted to be moved against said container for moving the latter, bar-like guiding elements secured upon the inner surfaces of the end-edges of said main shell, guide-lugs upon each element, upwardly extending arms connected with said first-mentioned closing device, said arms being retained in their sliding relations to said bar-like elements by means of said guide-lugs, arms extending upwardly from said container, and arms extending downwardly from said second-mentioned closing device, and a means of pivotal connection between each set of upwardly and downwardly extending arms, and inwardly projecting protuberances upon the side-faces of said shell for limiting the movements of said container, substantially as and for the purposes set forth.

10. A match-box or other receptacle comprising a main shell provided with open ends, a closing device movably arranged in each open end-portion, an intermediately disposed container movably arranged in said shell, one of said closing devices being adapted to be moved against said container for moving the latter, bar-like guiding elements secured upon the inner surfaces of the end-edges of said main shell, guide-lugs upon each element, upwardly extending arms connected with said first-mentioned closing device, said arms being retained in their sliding relations to said bar-like elements by means of said guide-lugs, a hook-shaped end-portion upon the free end of each arm adapted to be brought in limiting retaining engagement with the guide-lugs of each element, arms extending upwardly from said container, and arms extending downwardly from said second-mentioned closing device, and a means of pivotal connection between each set of upwardly and downwardly ex-

tending arms, substantially as and for the purposes set forth.

11. A match-box or other receptacle comprising a main shell provided with open ends, a closing device movably arranged in each open end-portion, an intermediately disposed container movably arranged in said shell one of said closing devices being adapted to be moved against said container for moving the latter, bar-like guiding elements secured upon the inner surfaces of the end-edges of said main shell, guide-lugs upon each element, upwardly extending arms connected with said first-mentioned closing device, said arms being retained in their sliding relations to said bar-like elements by means of said guide-lugs, a hook-shaped end-portion upon the free end of each arm adapted to be brought in limiting retaining engagement with the guide-lugs of each element, arms extending upwardly from said container, and arms extending downwardly from said second-mentioned closing device, and a means of pivotal connection between each set of upwardly and downwardly extending arms, and means within said shell for limiting the movements of said container, substantially as and for the purposes set forth.

12. A match-box or other receptacle comprising a main shell provided with open ends, a closing device movably arranged in each open end-portion, an intermediately disposed container movably arranged in said shell, one of said closing devices being adapted to be moved against said container for moving the latter, bar-like guiding elements secured upon the inner surfaces of the end-edges of said main shell, guide-lugs upon each element, upwardly extending arms connected with said first-mentioned closing device, said arms being retained in their sliding relations to said bar-like elements by means of said guide-lugs, a hook-shaped end-portion upon the free end of each arm adapted to be brought in limiting retaining engagement with the guide-lugs of each element, arms extending upwardly from said container, and arms extending downwardly from said second-mentioned closing device, and a means of pivotal connection between each set of upwardly and downwardly extending arms, and inwardly projecting protuberances upon the side-faces of said shell for limiting the movements of said container, substantially as and for the purposes set forth.

13. In a match-box or other receptacle, a main shell comprising side-faces and end-edges, said end-edges being formed with lug-receiving slots, and said shell having an open end-portion, bar-like elements arranged upon the inner surfaces of said end-edges, a closing device movably arranged in the open end-portion of said shell, guide-forming lugs

connected with each bar-like element, arms
extending upwardly from said closing device,
said arms being slidably arranged behind
said guide forming lugs, and hook-shaped
5 end-members on said arms for limiting the
movements of said arms and said closing de-
vices, substantially as and for the purposes
set forth.

In testimony, that I claim the invention
set forth above I have hereunto set my hand 10
this twenty-third day of August, 1907.

BENNO VOM EIGEN.

Witnesses:

GEO. M. TITUS,

GEORGE D. RICHARDS.