

No. 865,076.

E. BRAUNFELDT.
CLOSURE FOR MILK AND CREAM BOTTLES OR JARS.

PATENTED SEPT. 3, 1907.

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Fig. 1.

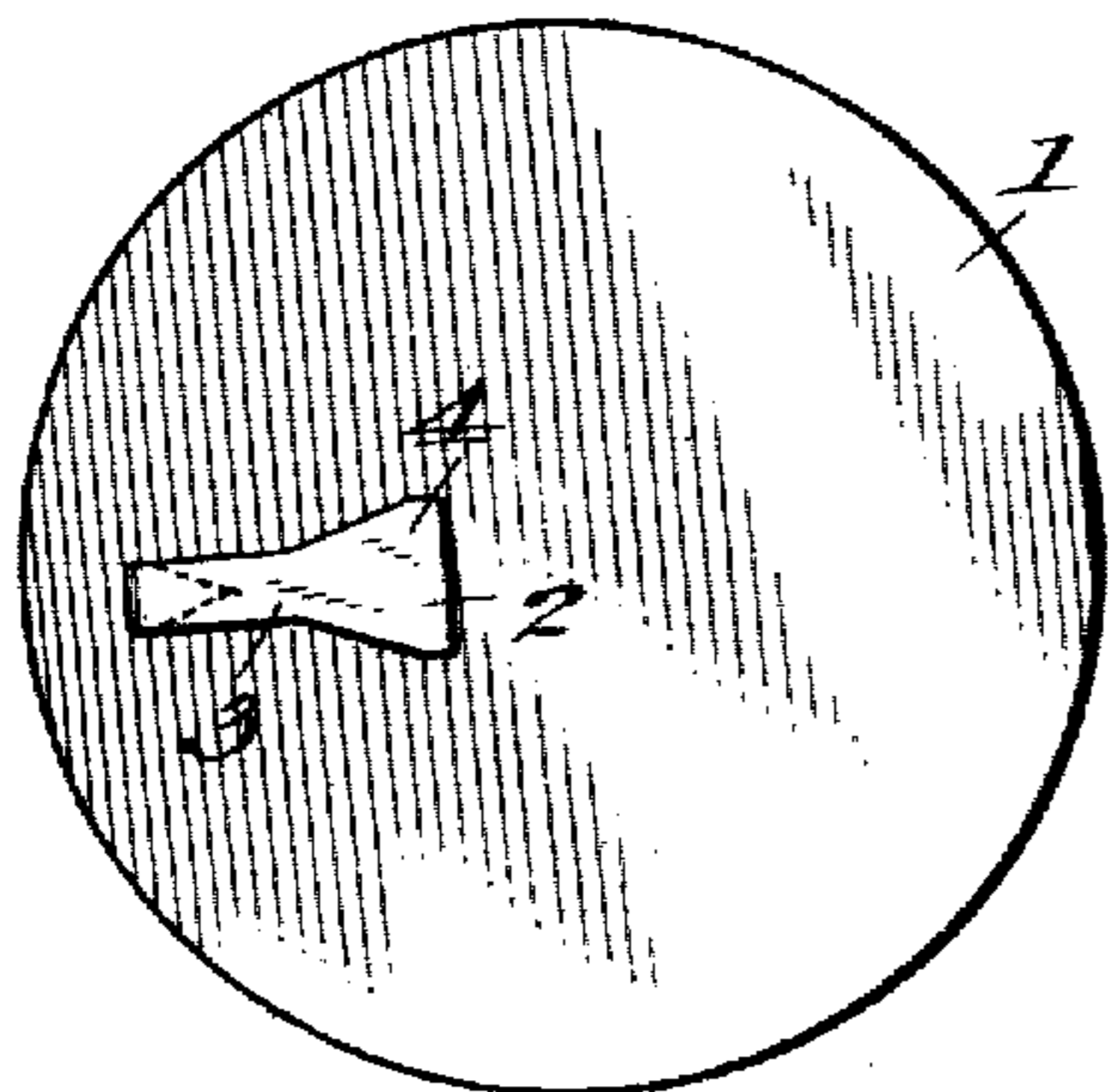


Fig. 2.

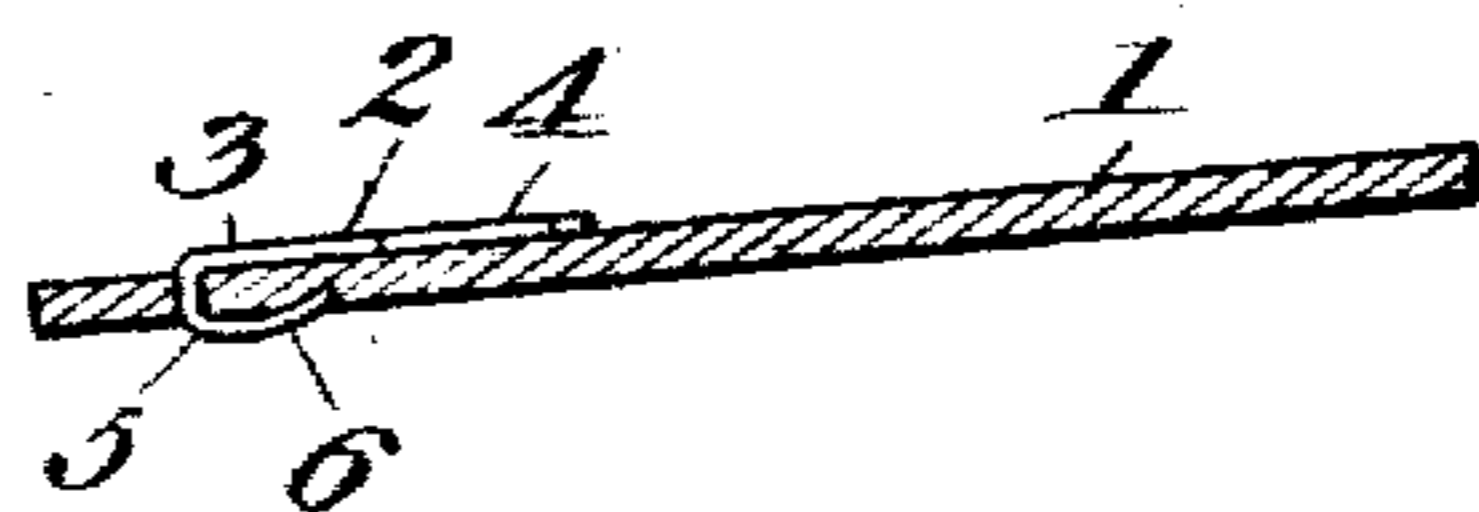


Fig. 3.

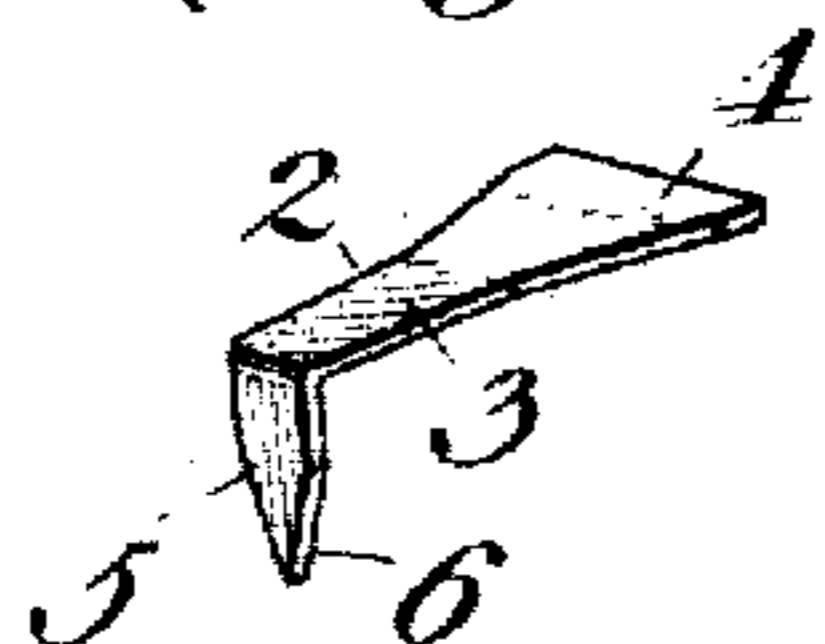


Fig. 4.

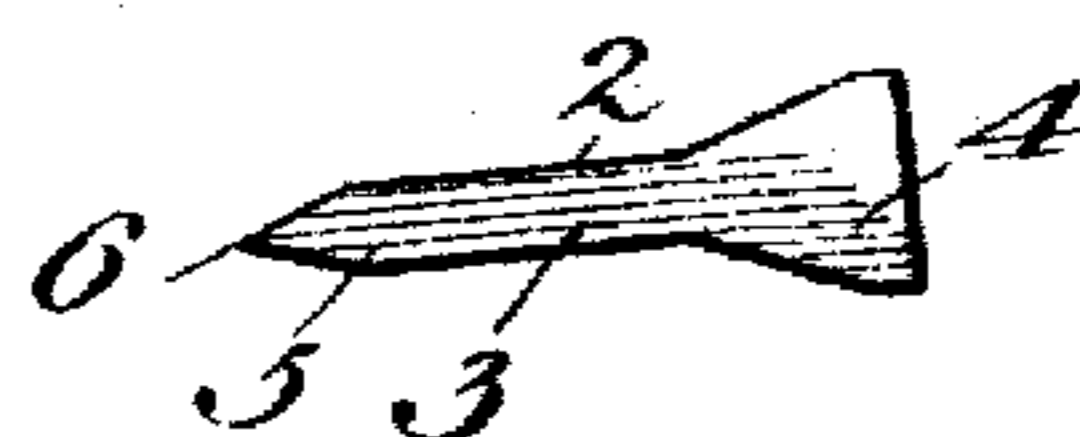
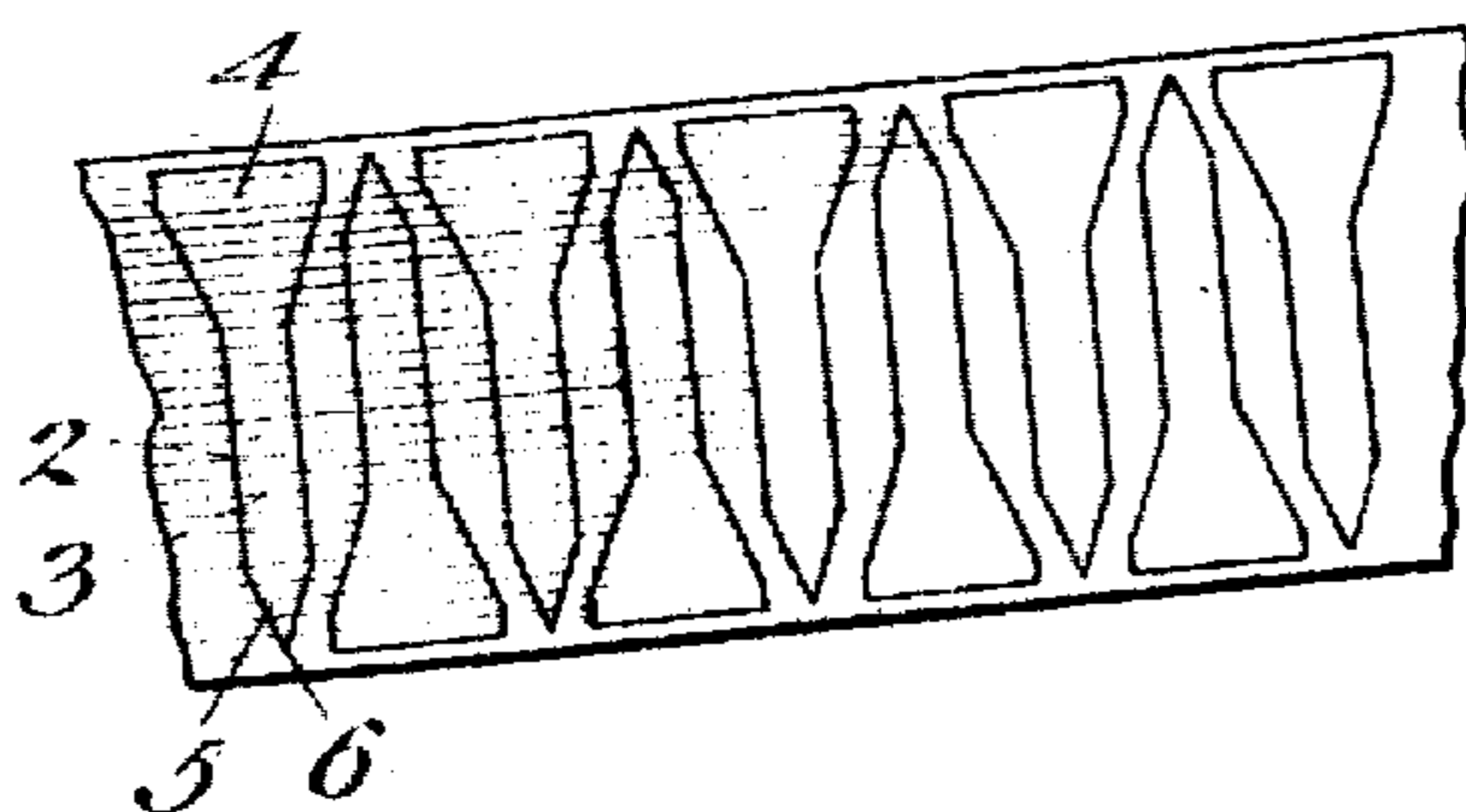


Fig. 5.



Witnesses:

J. D. Muir,
George J. Bean.

Inventor;

E. Braunfeldt,

By *R. G. Hansen*,
Attorney.

UNITED STATES PATENT OFFICE.

EDWARD BRAUNFELDT, OF BROOKLYN, NEW YORK.

CLOSURE FOR MILK AND CREAM BOTTLES OR JARS.

No. 865,076.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, EDWARD BRAUNFELDT, a citizen of the United States, residing at Brooklyn, in the county of Kings and State of New York, have invented certain new and useful Improvements in Closures for Milk and Cream Bottles or Jars; and I do 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 the letters and figures of reference marked thereon, which form a part of this specification.

My invention relates to "caps," covers or closures for milk and cream bottles or jars, and has for its object to provide an extracting device possessing the advantages of cheapness of production, strength and flexibility, security in attachment with but a single puncture of the cover or closure thereby insuring, practically, the integrity of the closure so as to reduce to the minimum the possibility of foreign materials entering the jar or bottle, or the escape of the contents of the latter; and also affording a firm grip on the extractor by the thumb and finger, without liability of cutting or wounding the finger. Heretofore, extractors for these caps or covers have been made of the same material as the cap or cover and integral therewith, but when such is the case the flap extractor is liable to be softened and weakened by moisture or otherwise and thus be liable to separation or breakage in the act of attempting to extract or remove the cap or cover. Again, various forms of metallic extractors have been provided, one of which consists of a flat strip of metal made in the form of a staple with its two members passed through the body of the cap or cover. This seemed to meet more of the requirements than most if not all of the other forms but owing to its construction the metal strip had to possess a sufficient degree of stiffness to enable its prongs to be pressed through the cover, or else the cover had to be slotted to receive the two members of the staple. By reason of the two openings in the cap or cover for the two members of the staple there is more liability of extraneous matter entering the contents of the bottle or jar, and also of the contents of the bottles leaking through said openings, thus detracting from the air tight and sanitary conditions desirable to maintain. The stiffness of the metal also detracted from the flexibility desirable for the most satisfactory manipulation of the extractor.

The purpose of my invention is to overcome the objectionable features mentioned and to produce an extractor having features that will meet the requirements best calculated to give the results sought.

To the accomplishment of the foregoing and such other objects as may hereinafter appear, the invention consists in the features hereinafter described and then

sought to be clearly defined by the claims, reference being had to the accompanying drawing forming a part hereof, and in which

Figure 1 is a plan view of a cap or cover having the extractor applied thereto; Fig. 2 is a vertical cross-section through the same; Fig. 3 is a view of one of the extractors detached from the cover; Fig. 4 is a plan view of one of the extractors before its clenching end has been bent; and Fig. 5 is a strip showing the manner in which the extractors are cut therefrom; the several views being magnified.

In the drawing, the numeral 1 designates a well known form of milk or cream bottle or jar cover or "cap" of disk form made of cardboard and usually paraffined, and having the extractor 2 applied thereto. This extractor is made from thin sheet metal possessing a considerable degree of flexibility, and consists of a relatively narrow shank 3, an enlarged head 4 and a pointed end 5, which may be bent to form a prong 6. In applying the extractor to the "cap" or cover, at or near its margin, it is placed upon the cover with its shank parallel therewith and its pointed prong at an angle thereto, and then by a suitable tool the pointed prong is pressed through the "cap" from top to bottom, and the prong bent or upset so as to clench the bottom of the "cap", the tool preferably being so shaped that it will curve the prong so that its extreme point will penetrate but not pass through the "cap" from its bottom towards its top. This firmly secures the extractor to the "cap", and the shank and enlarged head form a tab which may be raised by the finger and gripped between the finger and thumb so as to pull on the "cap" or cover to remove it from the mouth of the bottle or jar. As the shank or "tab" is flexible it can be readily bent either into a raised position to extract the "cap" or cover, or be depressed so as to lie at other times flat upon the cap or cover. It will be observed that by making pointed the penetrating end of the extractor it can be made to readily cut its way through the "cap" without the necessity of preliminarily cutting or slitting the cap. Thus a close fit is made between the shank and the wall of the opening which its point cuts in the cap so that the opening is practically closed, thus preventing any foreign matter entering the bottle, or the contents of the latter from leaking. The cut made by the pointed end is also sharp and with clearly defined edges so that no rough or abraded edges are formed to absorb moisture. Only one incision being made any opportunity for foreign matter to enter the bottle or jar is reduced to the minimum, so that the best sanitary conditions and airtight closure of the bottle or jar are obtained. The pointed end to the prong also enables the point to be readily turned upward in clenching it to the "cap" or cover so as to most effectively securing the extractor to the "cap" without the prong passing through to the

top of the "cap". The enlarged head forms a ready means for lifting the "tab", and affords a firm grip for the thumb and finger so that they will not slip from the tab when moistened, and thus the "cap" can be more easily and with certainty removed. The form of the extractor also enables a number of them to be cut from a single strip of metal as shown in Fig. 5 without any waste, thus materially reducing the cost of production.

It is obvious that the extractor with its pointed end is capable of being pressed through the "cap" without first bending the end to form the prong, in which case the extractor would appear as illustrated in Fig. 4, and its shank would be bent into parallelism with the face of the "cap" after passing the pointed end through the "cap", but it is preferred to form the prong before attaching the extractor to the "cap".

Having described my invention and set forth its merits, what I claim is:—

1. A bottle or jar closure comprising a comparatively thin closure and an extractor consisting of a flexible thin sheet metal shank having an enlarged head, and a pointed

end adapted to penetrate said closure from its upper to its under side and to be clenched thereto, substantially as described.

2. A bottle or jar closure provided with an extractor consisting of a flexible thin sheet metal shank having a pointed prong at one end passing through the closure and clenched thereto on the under side of the closure, substantially as described.

3. A bottle or jar closure provided with an extractor consisting of a flexible metal shank having an enlarged head at one end and a prong at the other end passing through the closure from its upper to its under side and bent upward to penetrate the closure from its under side and terminating below the top of the closure, substantially as described.

4. A bottle or jar closure provided with an extractor consisting of a flexible shank having a prong passing through the closure at a single point from its upper to its under side and clenched to the under side of the closure, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

EDWARD BRAUNFELDT.

Witnesses:

A. C. BOBYR,
ASA P. WRIGHT.