

(No Model.)

J. MURRAY.
BARREL COVER.

No. 543,396.

Patented July 23, 1895.

Fig. 1.

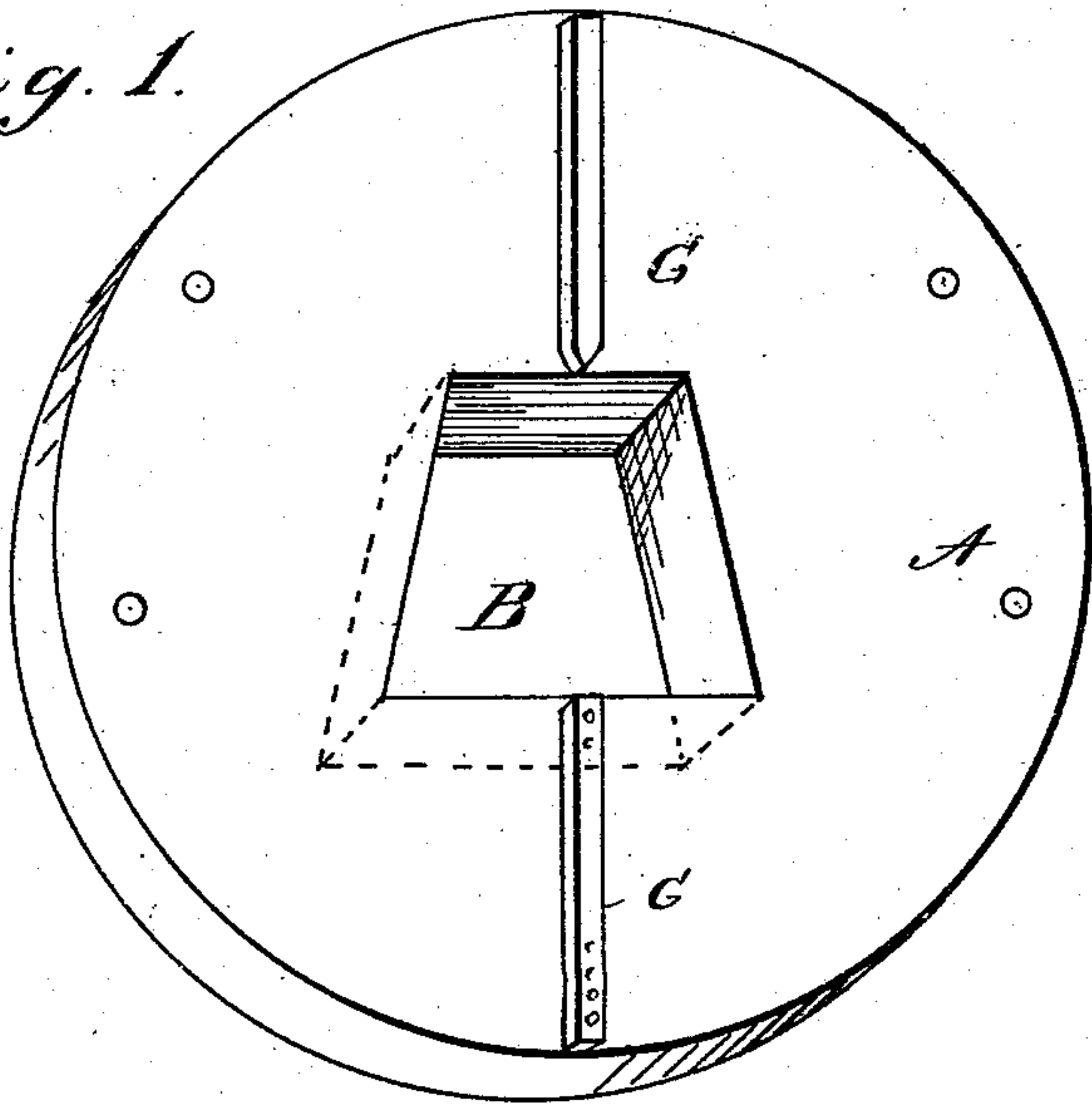


Fig. 1a

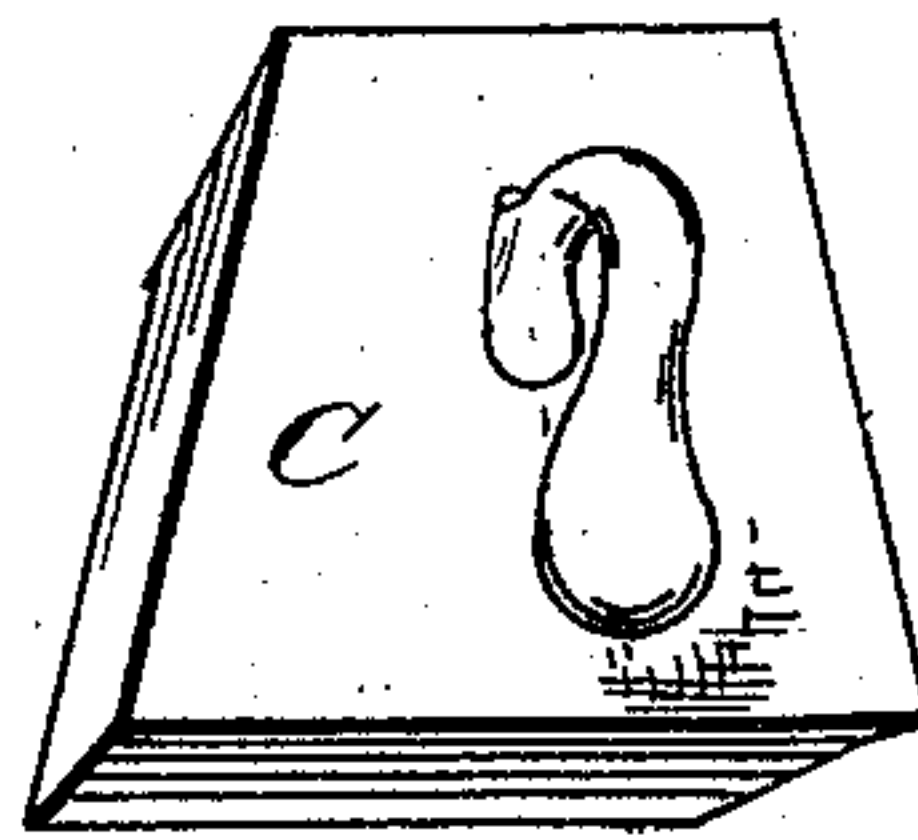


Fig. 2.

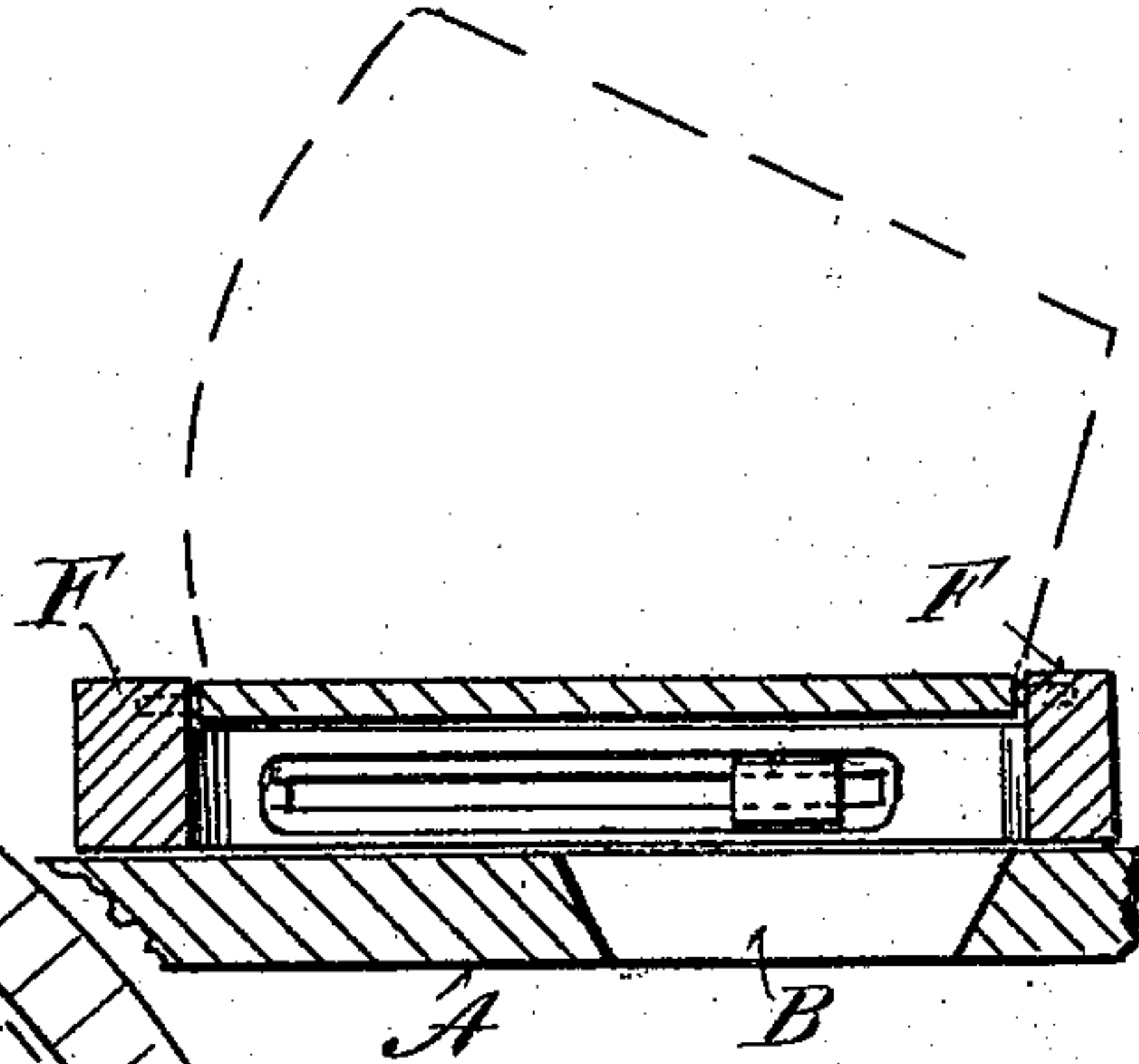
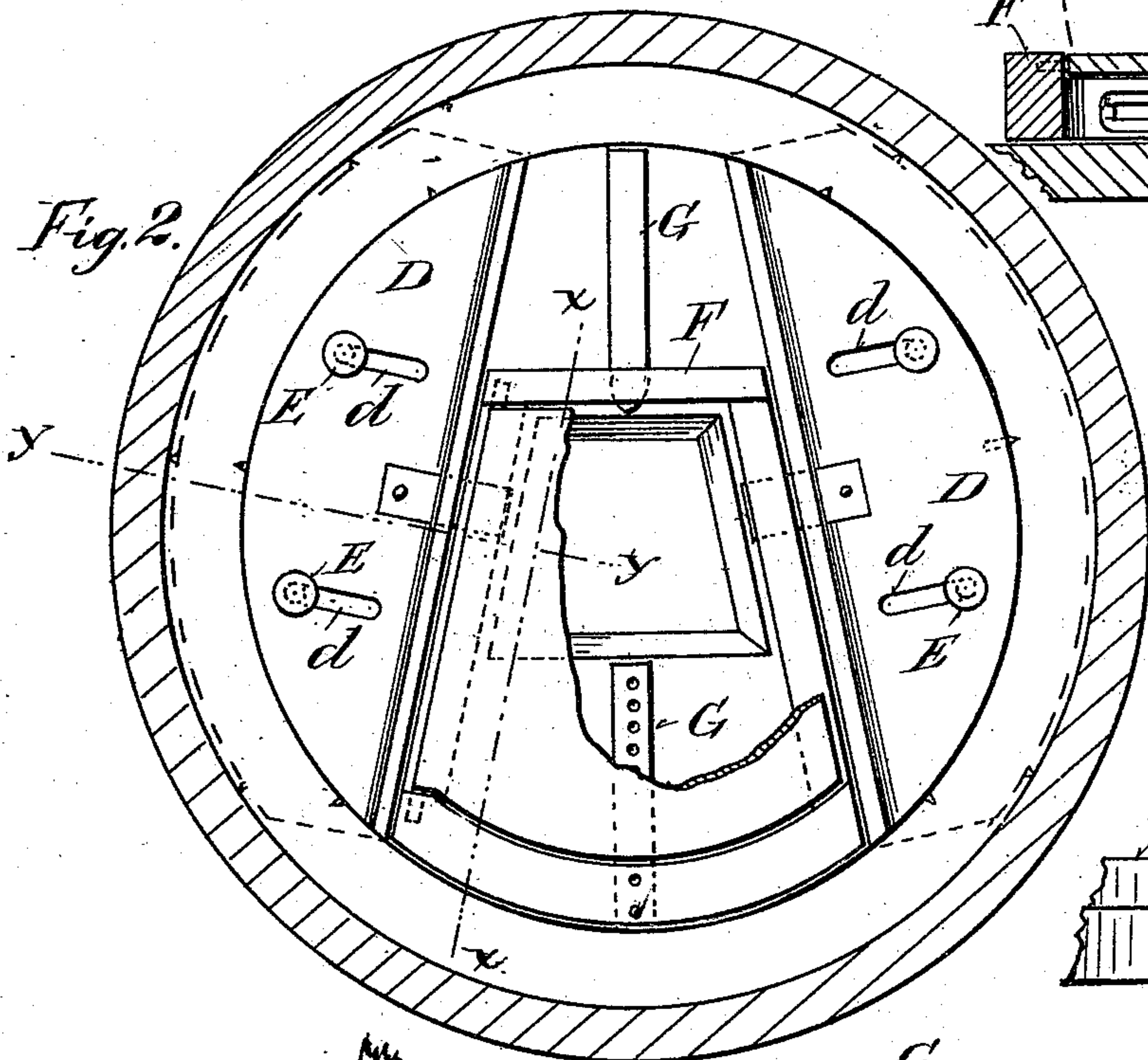
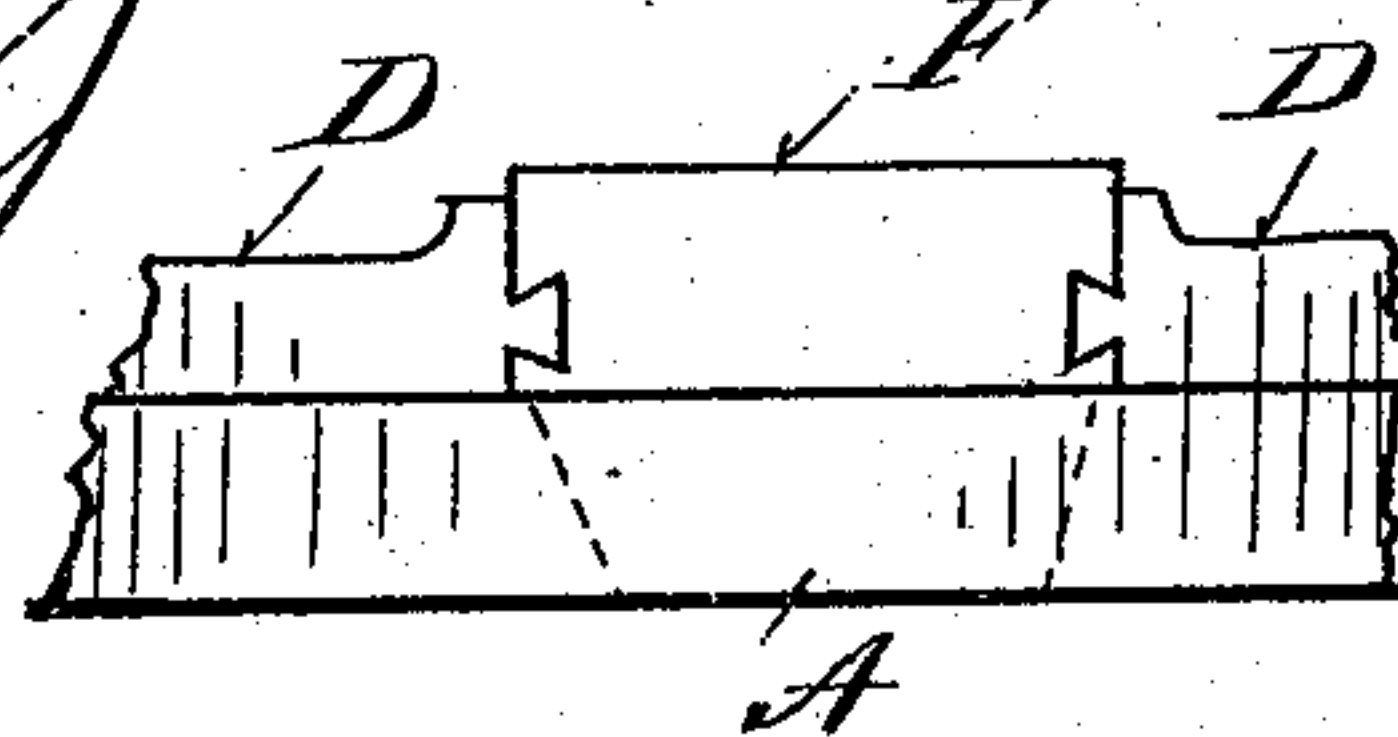


Fig. 4.

Fig. 5.



Witnesses.

D. M. Hall.

D. J. Lewis.

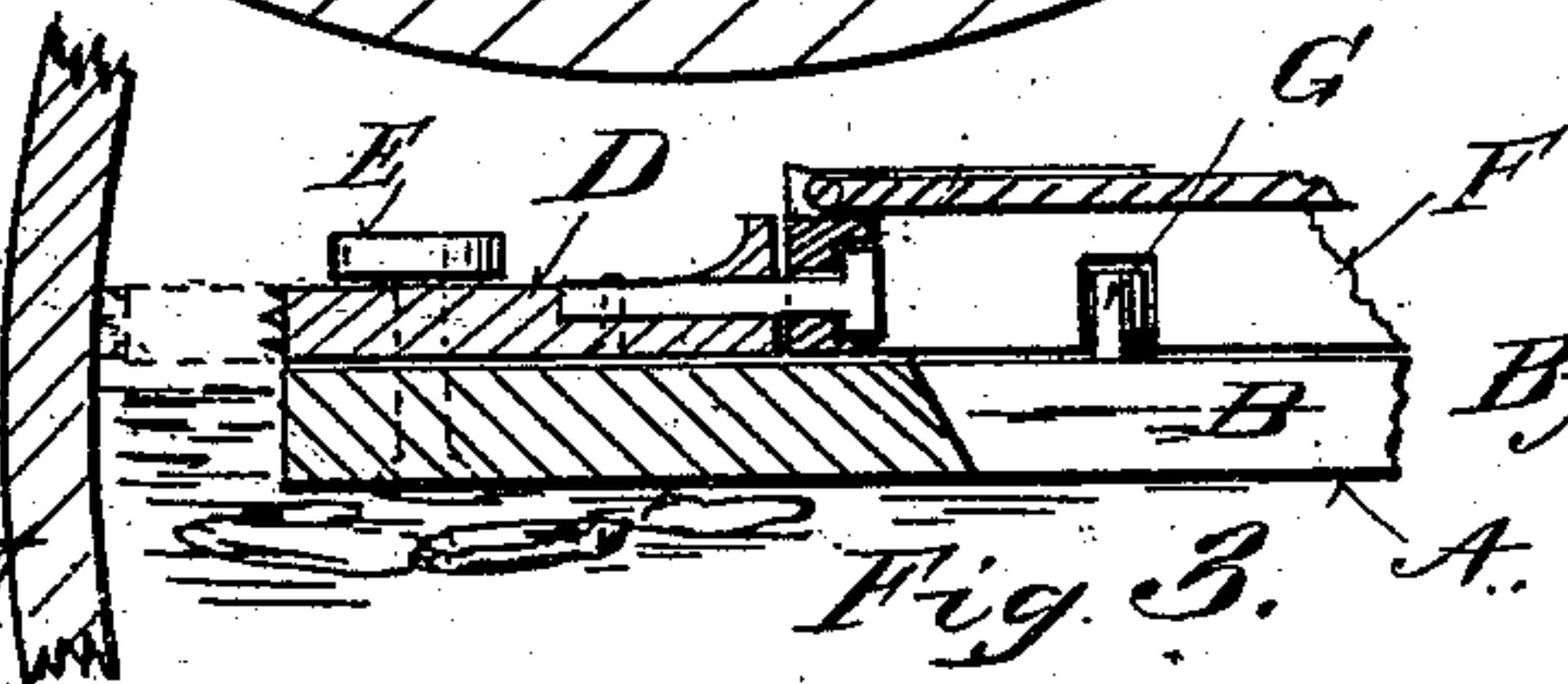


Fig. 3.

Inventor

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UNITED STATES PATENT OFFICE.

JOHN MURRAY, OF ST. LOUIS, MISSOURI.

BARREL-COVER.

SPECIFICATION forming part of Letters Patent No. 543,396, dated July 23, 1895.

Application filed September 15, 1894. Serial No. 523,110. (No model.)

To all whom it may concern:

Be it known that I, JOHN MURRAY, a citizen of the United States, residing at St. Louis, State of Missouri, have invented certain new and useful Improvements in Barrel-Covers, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to certain new and useful improvements in barrel-covers for goods in the process of marketing.

The object of my improvements is to provide a depressing cover that will fit wholly inside the barrel and keep the main body of the goods under pressure, or below the surface of the brine or liquid, while allowing access thereto without lifting the cover itself, and furthermore, one that can be expanded so as to cover the varying area due to the difference of head and bung diameter as the goods are taken from below the cover.

To this end my improvements have reference to a head having a fixed diameter slightly less than the diameter of the cask at the chine, to readily enter the same and rest upon the contained goods with more or less pressure, but chiefly to an expansible attachment to said head, whereby its diameter is increased as the cask increases in diameter toward the bilge or bung and engages with the cask to maintain it in place.

In the accompanying drawings, on which like reference-letters indicate corresponding parts, Figure 1 represents a plan perspective of the head or body; Fig. 1^a, a lid adapted to fit therein; Fig. 2, a plan view of the head with expansion-segments; Fig. 3, a section on the line *y y*, Fig. 2; Fig. 4, a section on the line *x x*, Fig. 2; and Fig. 5 a dovetail sliding connection.

In the sale of goods that are more or less injured by exposure to the air, it is often difficult to prevent such deterioration, while at the same time allowing ready access for marketing. Such goods as pickles and kraut especially suffer in quality, and my invention is particularly applicable to barrels containing such.

Referring to Fig. 1, the letter A designates a head of considerable thickness and weight, depending on the material of which it is made and the goods it is applied to. If made of the

preferred material, pottery or artificial stone, it may be one and one-half inches in thickness to compress the kraut. It is provided with a hole B, preferably with inclined sides, in which fits a lid C. The weight of the head will give sufficient pressure upon the kraut and descend with it into the barrel as the kraut is taken out through the hole B. For pickles, however, it is preferred to use an expansion attachment to the said head, consisting of sliding segments D D, Fig. 2, having slots *d* and pins E, which allow of substantially radial travel of the segments. The dotted lines in Fig. 2 indicate the increased diameter obtainable by forcing outward the said segments. This expansion is done in the preferred form by means of a wedge-frame F, fitting around the hole B and having a sliding connection with the segments D to cause them to travel away from the center as the frame slides across the head on suitable guides G.

Fig. 4 shows the slot in the side of the frame, and Fig. 3 the pin connection with the segments. The edges of the latter have sharp pointed projections, such as dowels or serrations, which are thus engaged with the sides of the cask and support the cover at the surface of the liquid. The pickles are depressed below it and out of contact with the air. The frame F is shown with a hinged lid as the preferred form. The opening B is substantially in the center of the head, and the frame F is long enough to give access to the hole in any point of its travel. Its extreme positions will be when the segments are drawn in on entering the barrel, as shown by the full lines, Fig. 2, and when it has expanded the cover to the bilge diameter by its travel forward across the head.

As the cover will be exposed to more or less dampness on its under side and to the air above, it will have a tendency to warp unless made of some unshrinkable material, such as pottery, artificial stone, or glass. The two last named are especially suitable for its construction on account of their cleanliness and weight, which admirably serve the object of the invention. I regard this unshrinkable feature as one of the features of my invention.

I do not limit myself to the exact construction herein shown.

Referring to Fig. 5, another form of sliding connection between the wedge-frame and the expansion-segments is shown. It consists of a dovetail tongue and groove, which connects
5 each segment with the wedge-frame, so as to draw them in or push them out as the frame is moved in one direction or the other across the head or body piece A. This form dispenses with the guides G in the center of the
10 head, if it be desired. Any suitable sliding connection, however, may be employed.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

15 1. A barrel cover, comprising a body having an interior opening for passage of the barrel contents, and horizontal guides on its upper surface, a secondary cover for said opening, and a transversely sliding attachment
20 adapted to be mounted on said guides, or dispensed with according to requirements.

2. A brine barrel cover comprising a transversely sliding wedge-frame surrounding, but not obstructing, a hole through the cover giving
25 access to the contents of the barrel and adjunctive devices operating therewith.

3. A brine barrel cover comprising a main cover having an access hole to the subaqueous contents, an open frame slidably mounted
30 around said hole without closing it in normal

adjustments, and expanding pieces operated by said frame to engage anywhere with the sides of the barrel.

4. A barrel cover comprising a main cover having an access hole to withdraw the con- 35 tents from below, a transversely sliding frame surrounding said access hole without obstructing it, and expanding segments on opposite sides of said frame and slidably connected therewith. 40

5. An interiorly adjustable cover for brine barrels, comprising a wedge-frame, open for access below, and movable segments embracing said wedge-frame, having a slidably operated connection of dovetail tongues and
45 grooves on said members to push out and pull in the segments by the sliding of said wedge-frame.

6. A barrel cover comprising a main cover with a hole for passage of the contents, ad- 50 justable segments slidably connected to said main cover about said hole, and means to hold said segments in adjusted position.

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

JOHN MURRAY.

Witnesses:

M. JACOBY,

H. M. PLAISTED.