

G. A. HUGGINS.  
MILK CAN.

No. 79,907.

Patented July 14, 1868.

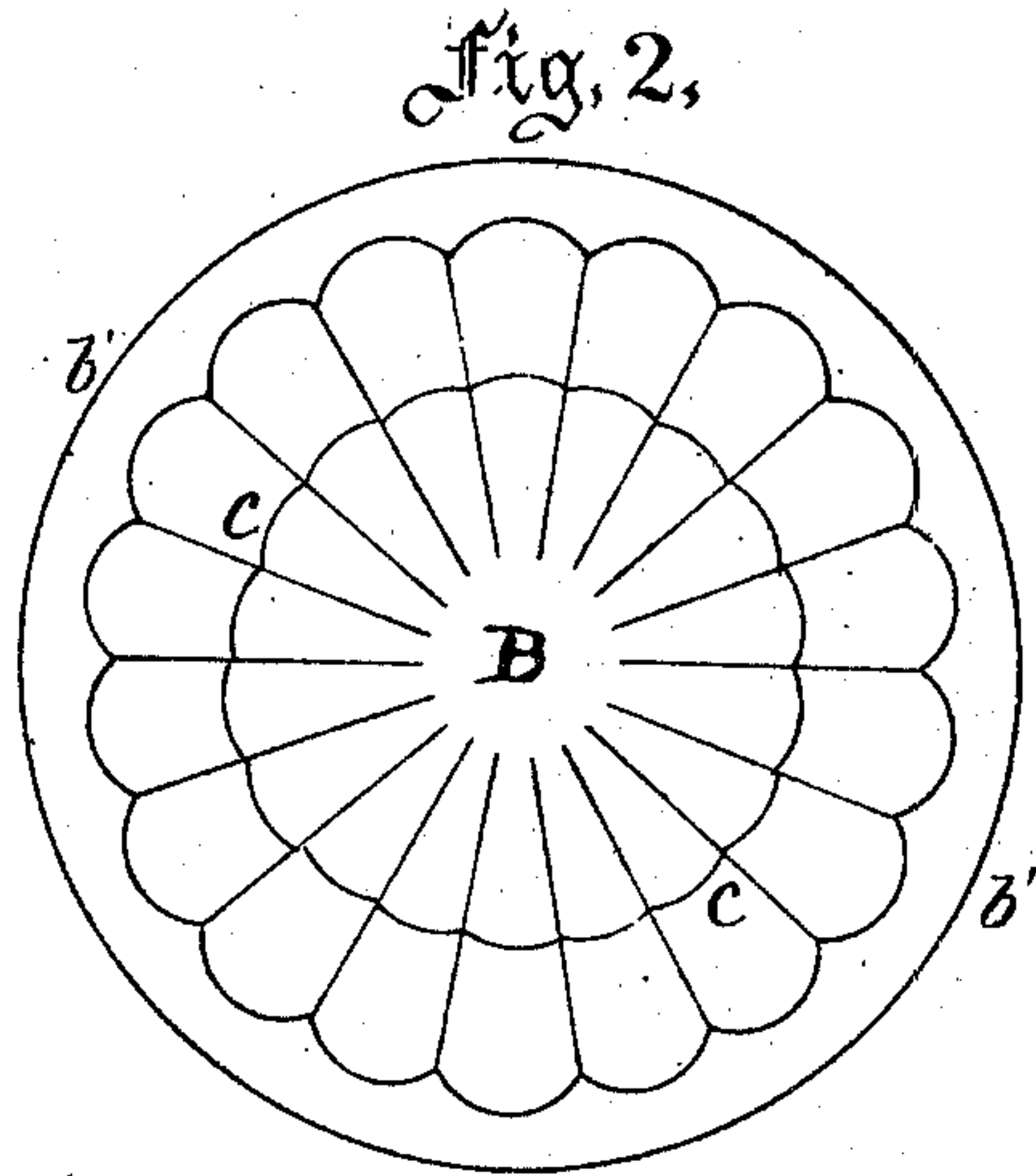
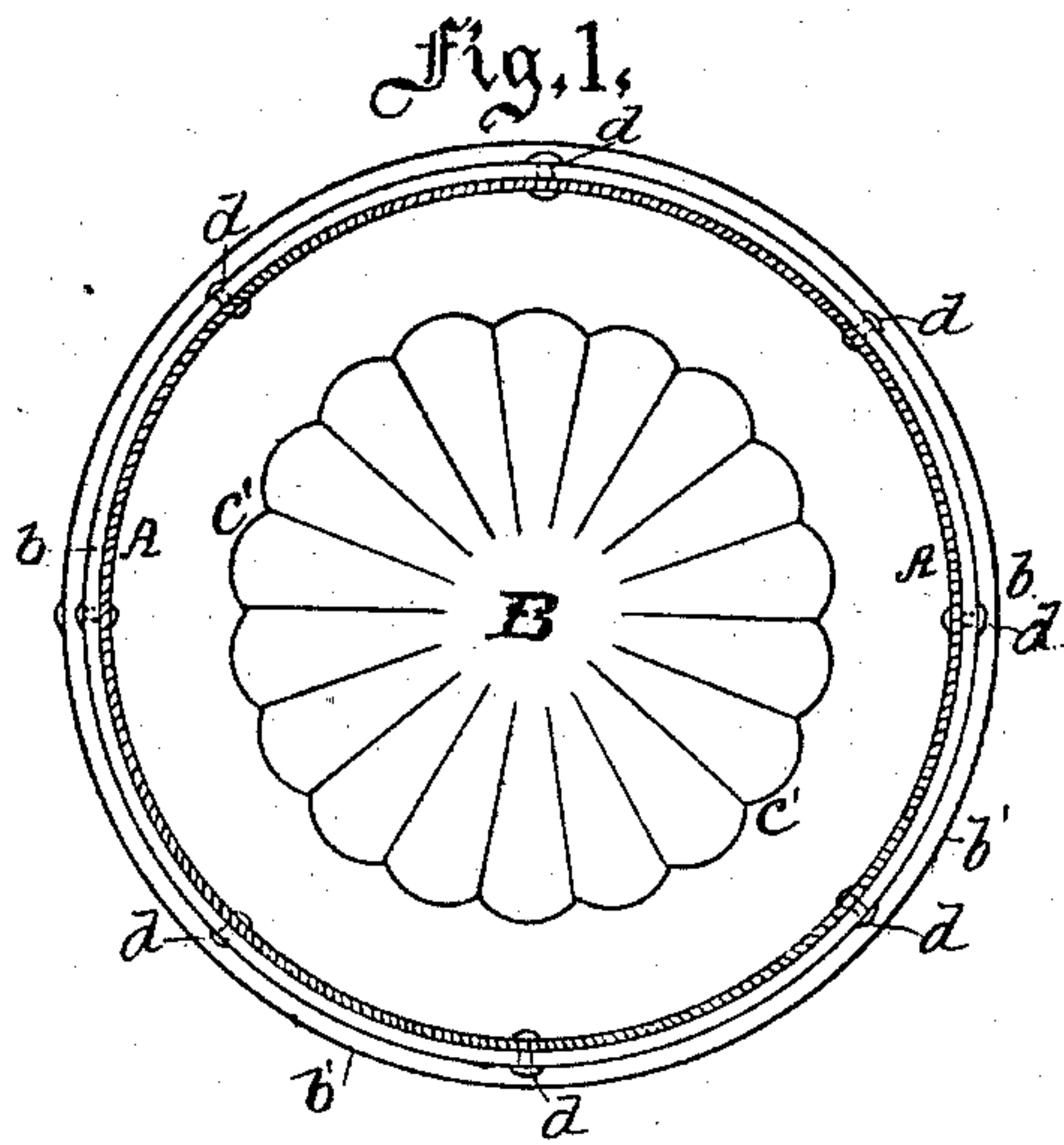
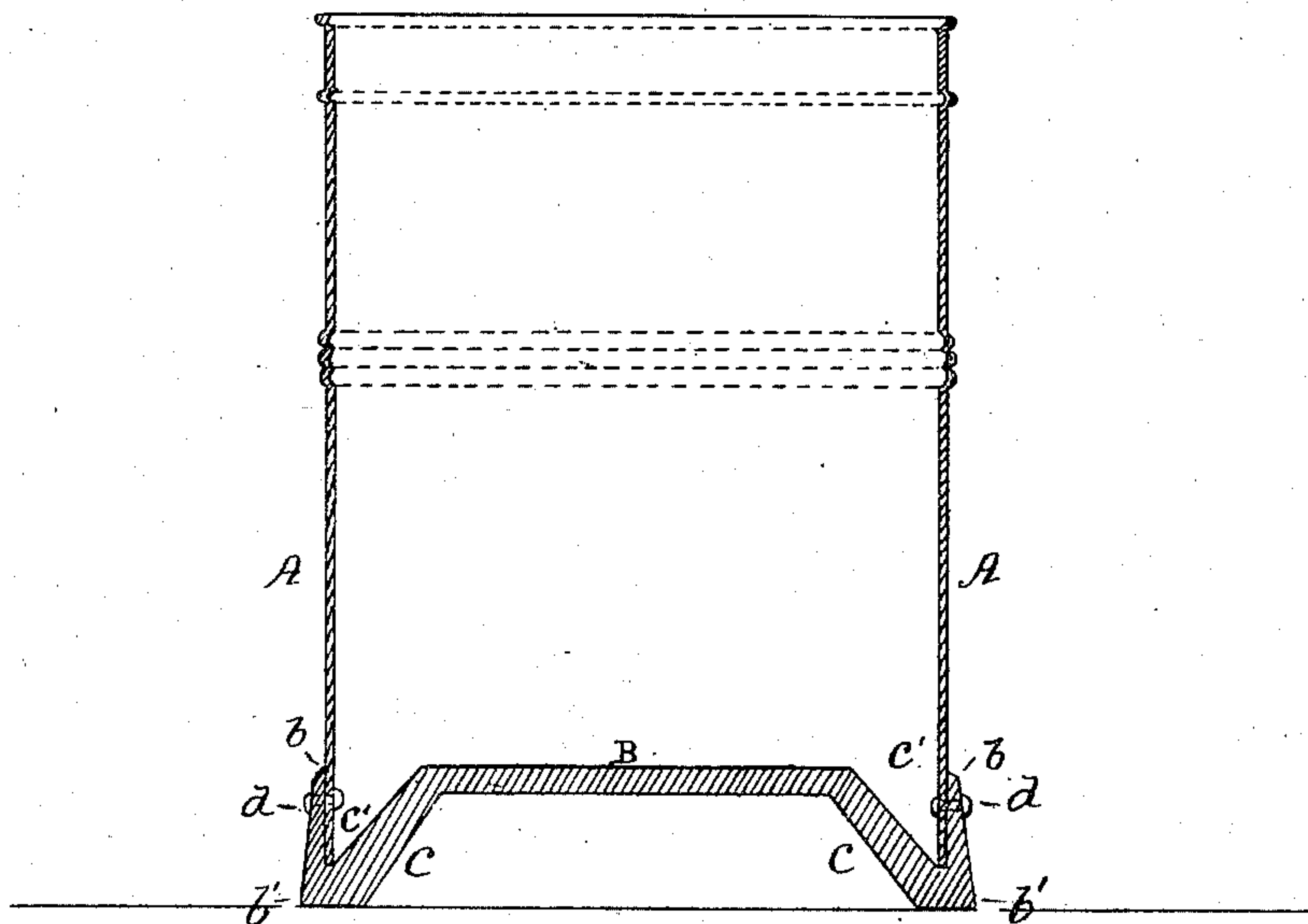


Fig. 3,



Witnesses:

Inventor

Edmund James  
John D. Floor

George A. Huggins  
per Holmead & Hollingshead  
Attorneys

# UNITED STATES PATENT OFFICE.

GEO. A. HUGGINS, OF MANNSVILLE, NEW YORK, ASSIGNOR TO HIMSELF  
AND H. W. SHEPARD, OF SAME PLACE.

## IMPROVEMENT IN MILK-CANS.

Specification forming part of Letters Patent No. 79,907, dated July 14, 1868.

*To all whom it may concern:*

Be it known that I, GEORGE A. HUGGINS, of Mannsville, county of Jefferson, and State of New York, have invented certain new and useful Improvements in Metallic Cans for Carrying Milk and for other purposes; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings and the letters of reference marked thereon, making part of this specification, in which—

Figure 1 is a view of the bottom piece on the inside. Fig. 2 is a view of the bottom piece from the outside. Fig. 3 is a vertical section through the middle.

The object of my invention is to provide solid metallic bottoms for milk-cans and such cans as are used for various liquids which are to be handled very frequently, and are used principally in conveying milk from the dairy to the market; but I do not confine my invention to that particular, as the cans may be used for conveying and containing oils and other liquids.

In the usual method of constructing milk-cans the bottoms are of the same material as the sides, and which, for economy, are of tin. The lower hoops are made strong; but as these cans are subjected to rough handling they soon become so much damaged as to be constantly in a leaky condition, which causes much loss, and is besides the constant source of expense and annoyance in repairs.

In my invention I provide solid bottoms, which are of one piece of casting, and by the peculiar shape the weight of the can is so arranged that the center of gravity is placed very low, and the risk of turning over is much lessened, if not entirely obviated. I make the casting as represented in the section, Fig. 3, so that the tin cylinder, which is to be the can, is just the size of the interior of the rim, and when put in and well soldered is then riveted to it by any number of rivets, which should be about one-third of the distance down from the top of the cast rim, as at *d*. The inside

should be soldered also, and when thus fixed no amount of rough handling can possibly jar the soldering apart, as the rivets keep the two metals firmly together. The bottom being made hollow underneath, and the base at *b* being considerably larger than the top of the rim at *b*, gives more stability to the whole can, and the weight of the bottom piece being so much more than the upper cylinder it will require extraordinary force to overturn it.

To enable others skilled in the art to make and use my invention, I will now proceed to describe its construction and operation.

A is the side of the can; B, the cast bottom piece; *b*, the top of the rim; *b'*, the bottom of the rim; *c*, the recess on the inner side, which may be plain, corrugated, or fluted; *c'*, the recess on the upper side or inside of the can, having corresponding flutings or corrugations; *d*, the rivets to hold the cylinder to the bottom piece.

It will be observed that by my arrangement of V-shaped groove in the bottom I am enabled, by means of rivets and solder, to securely attach the same to the body of the can, entirely dispensing with the outer auxiliary hoop now generally used.

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

The sheet-metal body A and cast or malleable bottom B, when the latter is grooved as to form a seat for the former, and at the same time furnish an outer rim for the protection of its lower edge, when the same are combined and attached substantially as described, as and for the purpose specified.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

GEO. A. HUGGINS.

Witnesses:

D. G. BULKLEY,  
S. J. HAM.