

(No Model.)

D. V. THRIFT.
SHEET METAL VESSEL.

No. 410,617.

Patented Sept. 10, 1889.

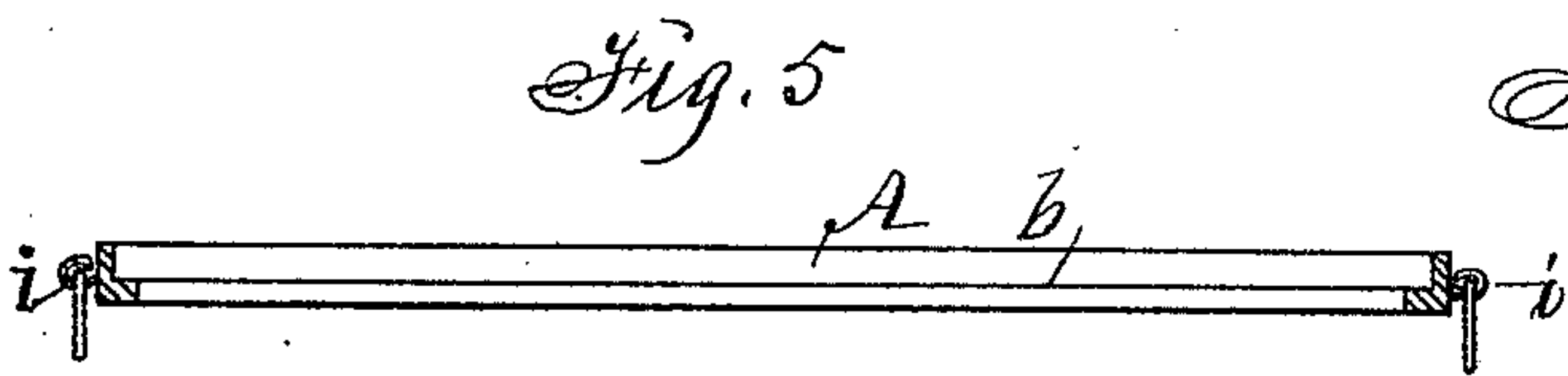
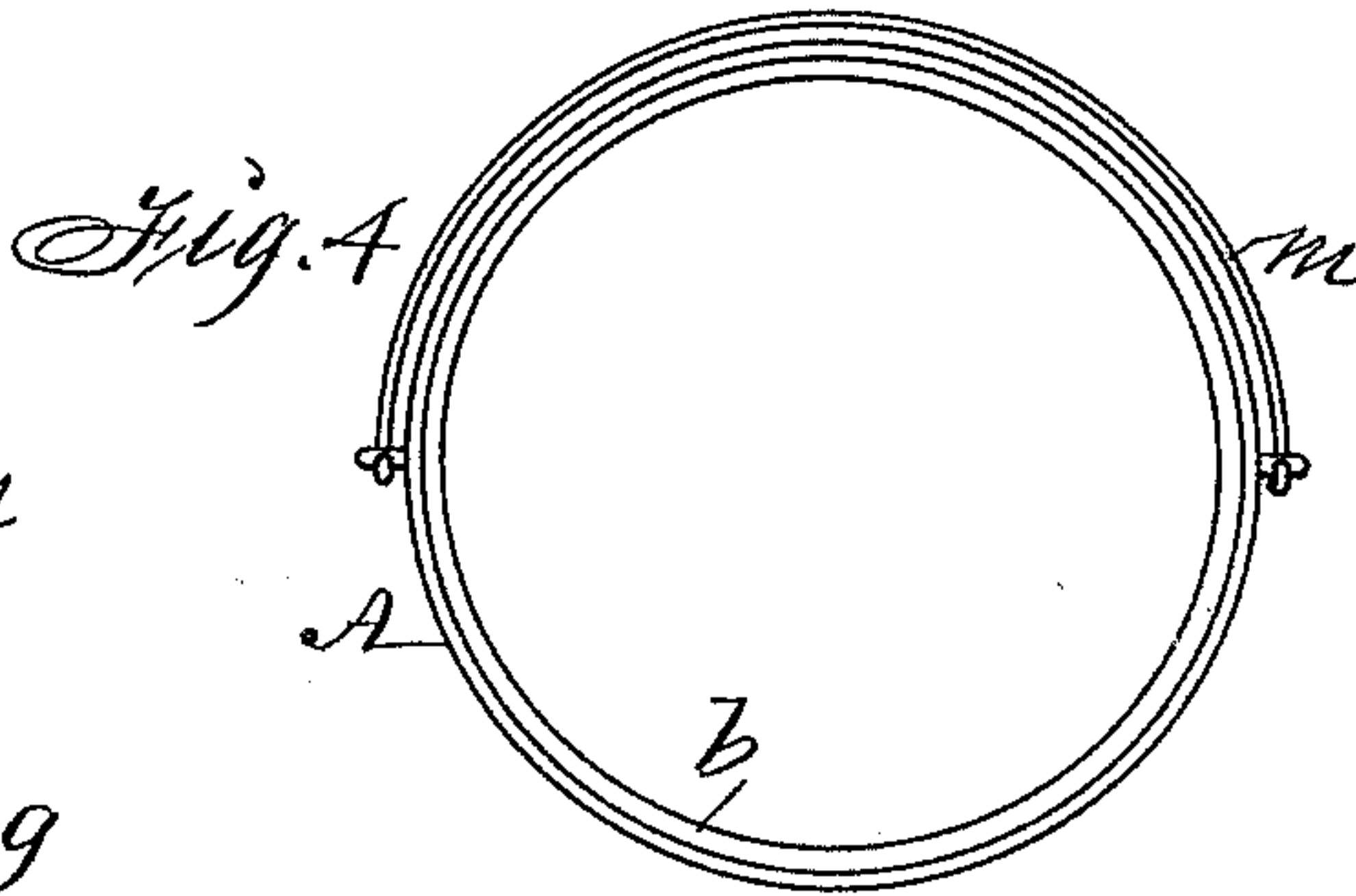
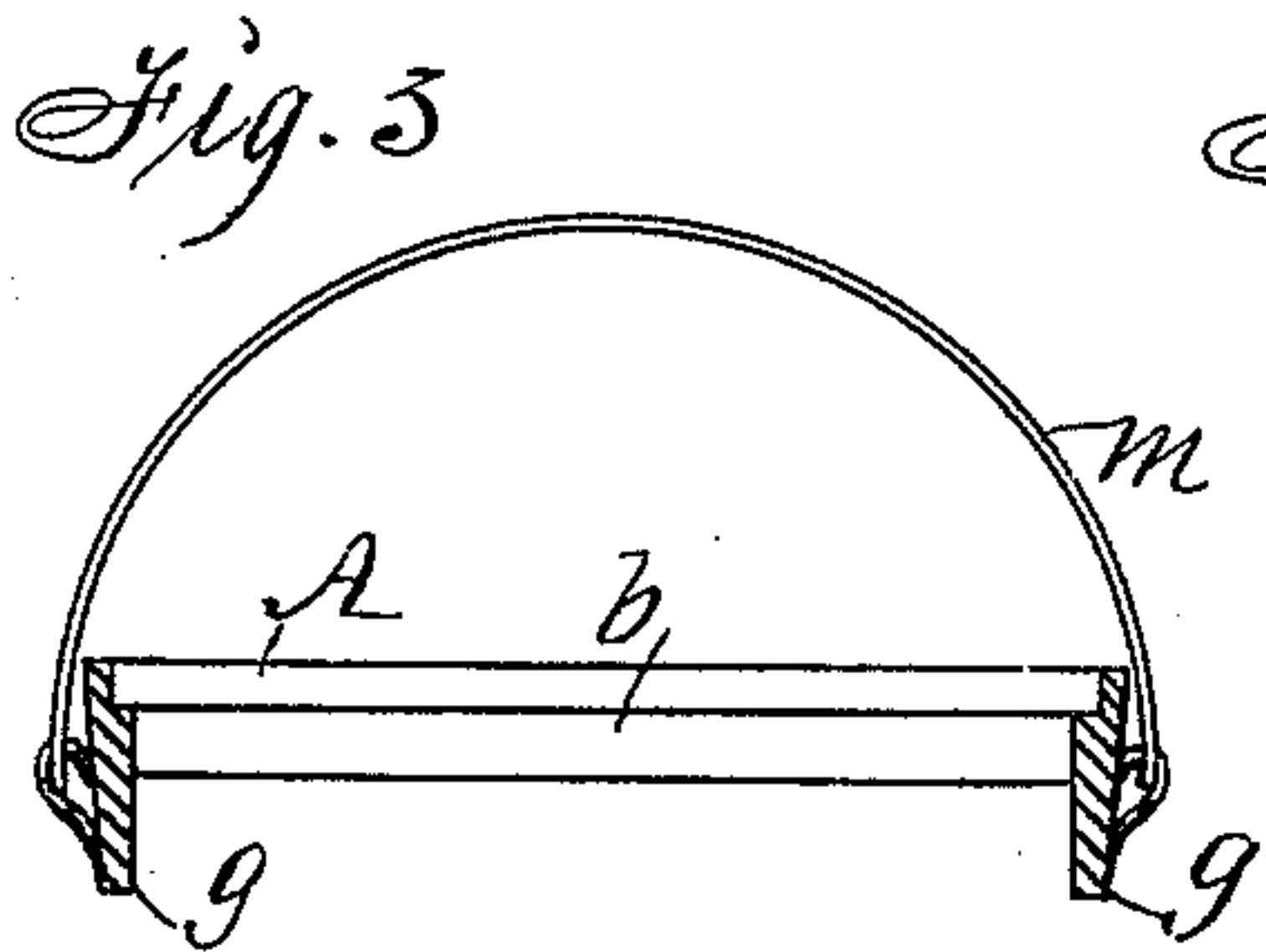
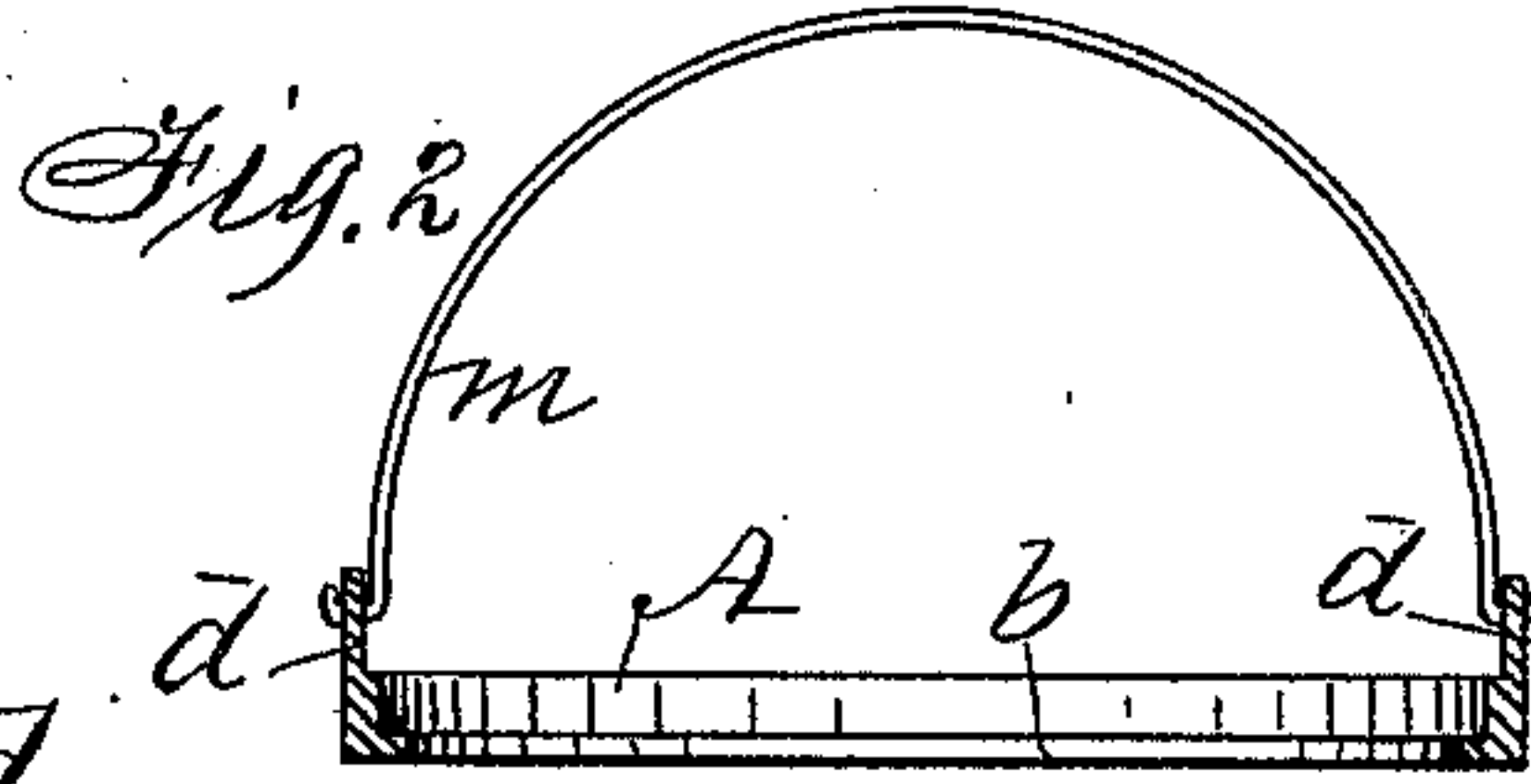
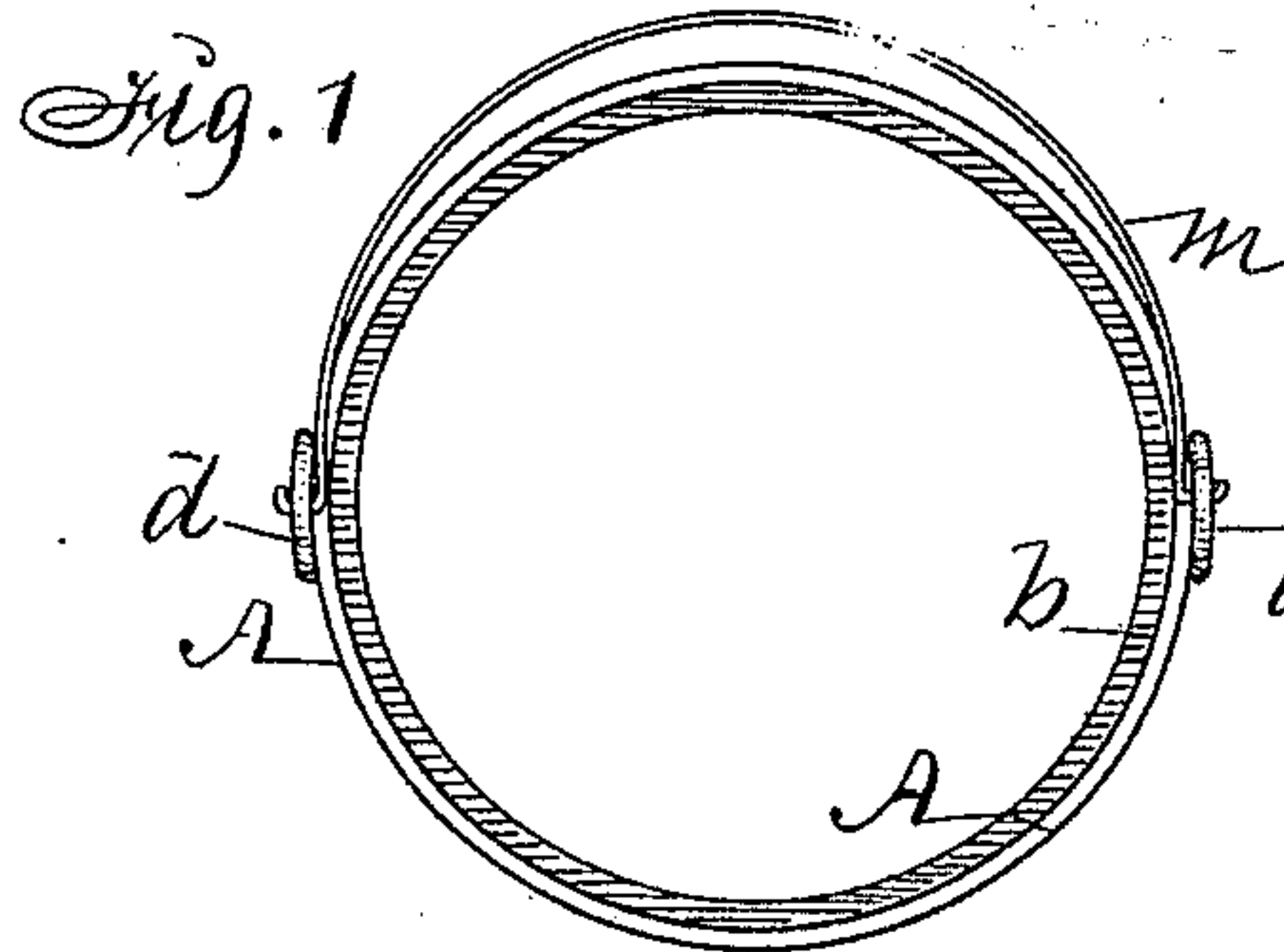
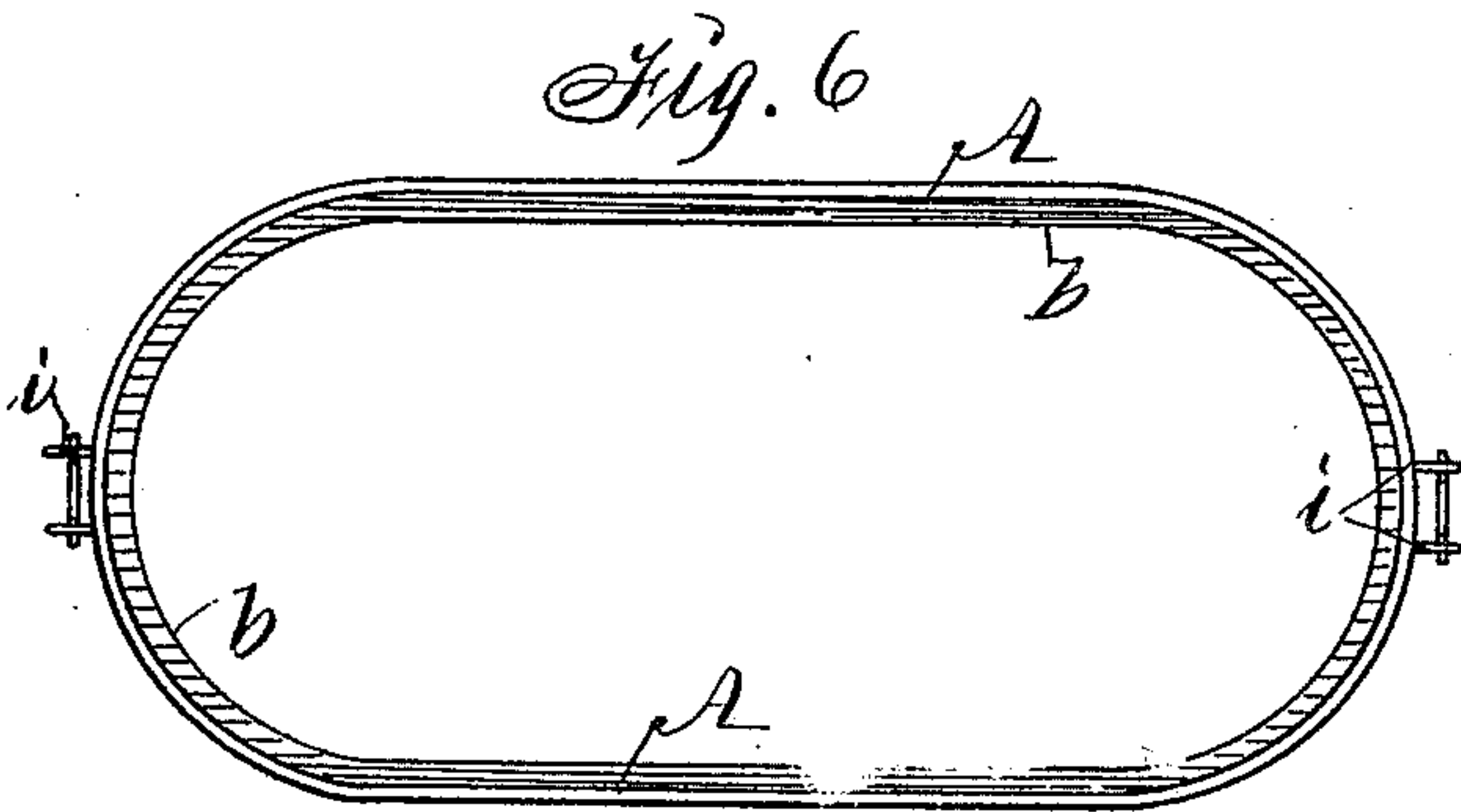
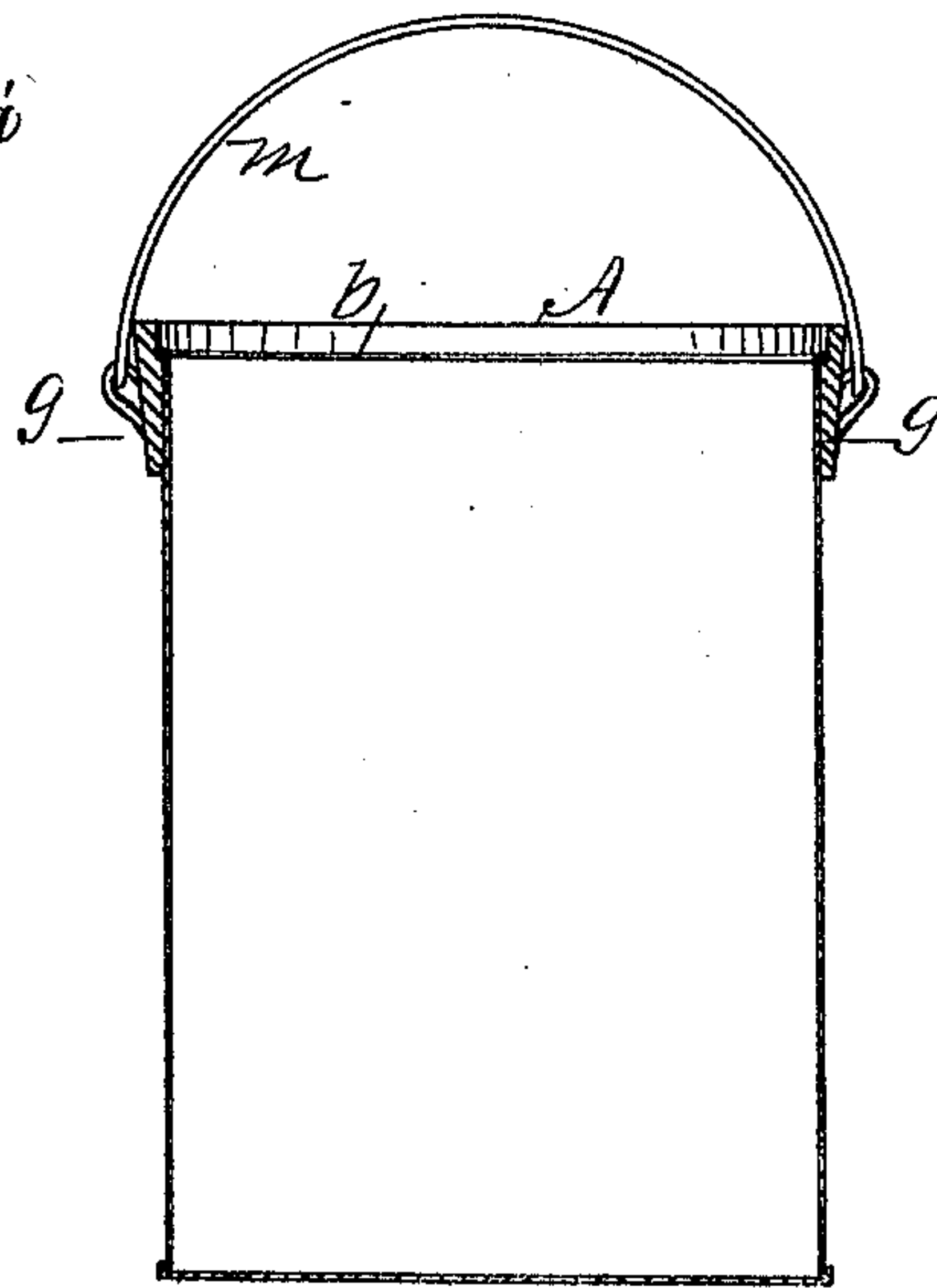


Fig. 7



Witnesses:

R. H. Orwig.

M. P. Smith.

Inventor:

David V. Thrift,

By Thomas G. Orwig, Atty.

UNITED STATES PATENT OFFICE.

DAVID V. THRIFT, OF NEVADA, IOWA.

SHEET-METAL VESSEL.

SPECIFICATION forming part of Letters Patent No. 410,617, dated September 10, 1889.

Application filed May 1, 1889. Serial No. 309,283. (No model.)

To all whom it may concern:

Be it known that I, DAVID V. THRIFT, a citizen of the United States of America, and a resident of Nevada, in the county of Story and State of Iowa, have invented a new and useful Improvement in Sheet-Metal Vessels, of which the following is a specification.

My invention relates to the manner of finishing the top edge of a bucket, wash-boiler, &c., and attaching bails or handles thereto; and it consists in the construction and combination of a metal top with the top edge of a sheet-metal vessel, as hereinafter fully set forth, pointed out in my claim, and illustrated in the accompanying drawings, in which—

Figure 1 is a top view, and Fig. 2 a transverse section, of one of my metal tops having integral perforated ears projecting upward and adapted for finishing the top of a cylindrical vessel. Figs. 3 and 4 show a modified form of the perforated ears or eyes for attaching a bail. Fig. 5 shows a longitudinal half-section, and Fig. 6 a top view of one of my metal tops adapted in shape for finishing the top of a wash-boiler of common form. Fig. 7 is a view of a vertical half-section of a cylindrical vessel having my metal top applied.

A is a metal rim preferably cast complete in one piece. *b* (shown in Figs. 1, 2, 5, and 6) is a continuous flange formed integral with the rim A to project horizontally and inward from the bottom edge of the rim.

b (shown in Figs. 3, 4, and 7) is an annular shoulder on the inside and top portion of the rim and a modification of the flange *b*.

d d (shown in Figs. 1 and 2) are perforated ears, to which a bail *f* is attached in a common way.

g g in Figs. 3 and 7 are ears extending downward to overlap the outside of a vessel, and *h h* are eyes made of wire and fixed to the ears and rim by placing the wire in a

mold and casting the metal around the ends of the wires, or in any suitable way to adapt them to receive the ends of a bail *f*.

i i (shown in Figs. 5 and 6) are eyes fixed to the rim A, and *m m* are handles hinged thereto in a common way to facilitate the lifting and handling of a wash-boiler.

In applying my metal top to re-enforce and finish the top edge of a sheet-metal vessel I simply turn a flange outward from the top edge of the vessel and then slip the vessel through the rim to allow the flange to overlap the flange or shoulder on the inside of the metal top and solder it fast to the metal top.

I am aware a band having an annular shoulder on its inside has been riveted to the top edge of a milk-can and a conical extension fitted and fixed on top of the shoulder, and ears secured to the outside of the band by means of rivets extended through the band and the top of the can; but my manner of constructing a rim with a flange extending inward and integral ears on its outside, and connecting it with the top of a sheet-metal vessel by turning the edge of the vessel outward over the top of the flange and then uniting the two parts by means of solder, is novel and greatly advantageous in the construction, use, and wear of a sheet-metal vessel.

I claim as my invention—

A rim or top having an annular shoulder or flange on its inside, and fastening devices for attaching a bail or handles thereto, in combination with a sheet-metal vessel having its top edge bent outward over the shoulder on the inside of said rim, substantially as shown and described, for the purpose stated.

DAVID V. THRIFT.

Witnesses:

I. L. SMITH,
JNO. H. SMITH.