

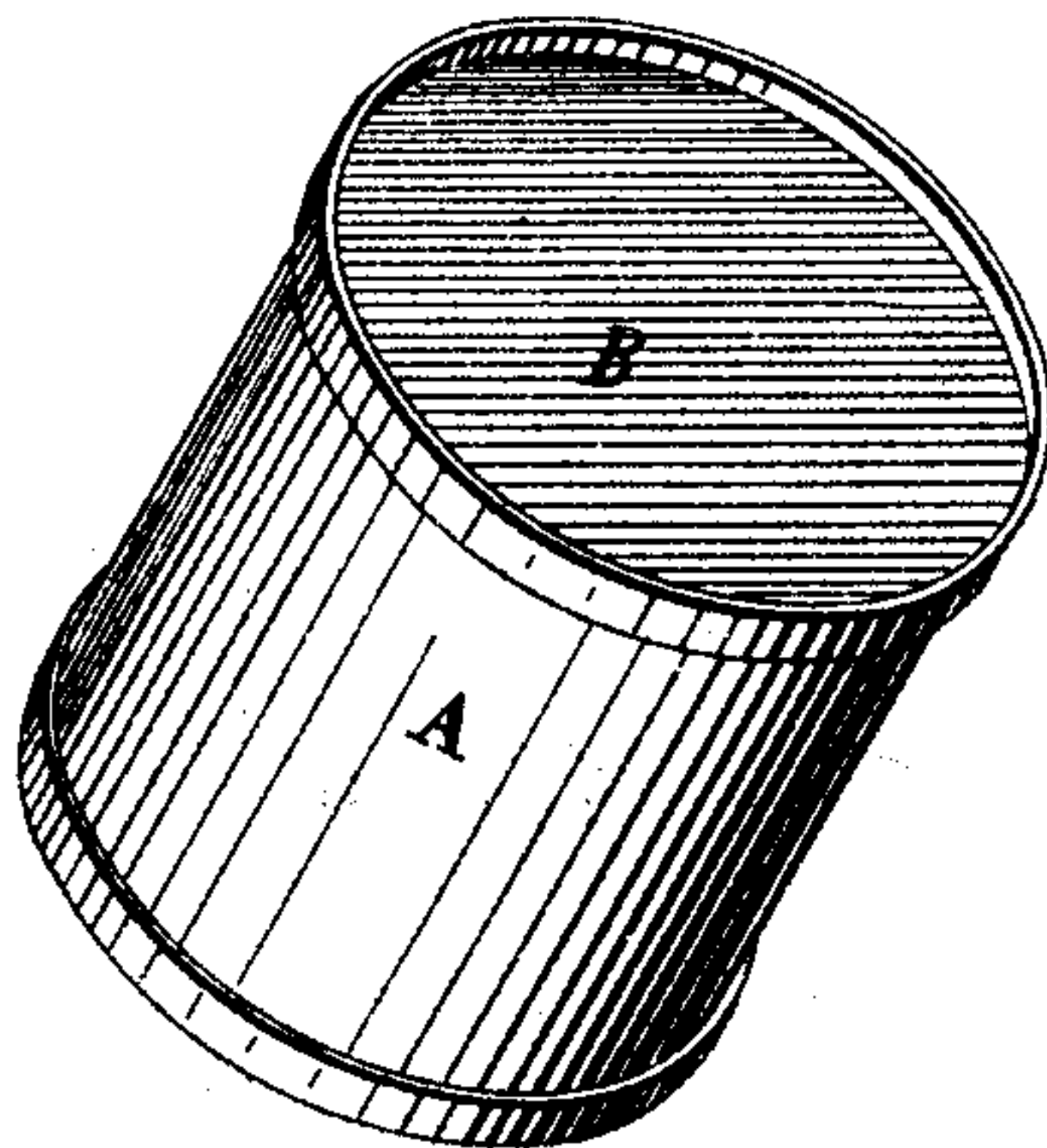
J. BELKNAP.

Drums.

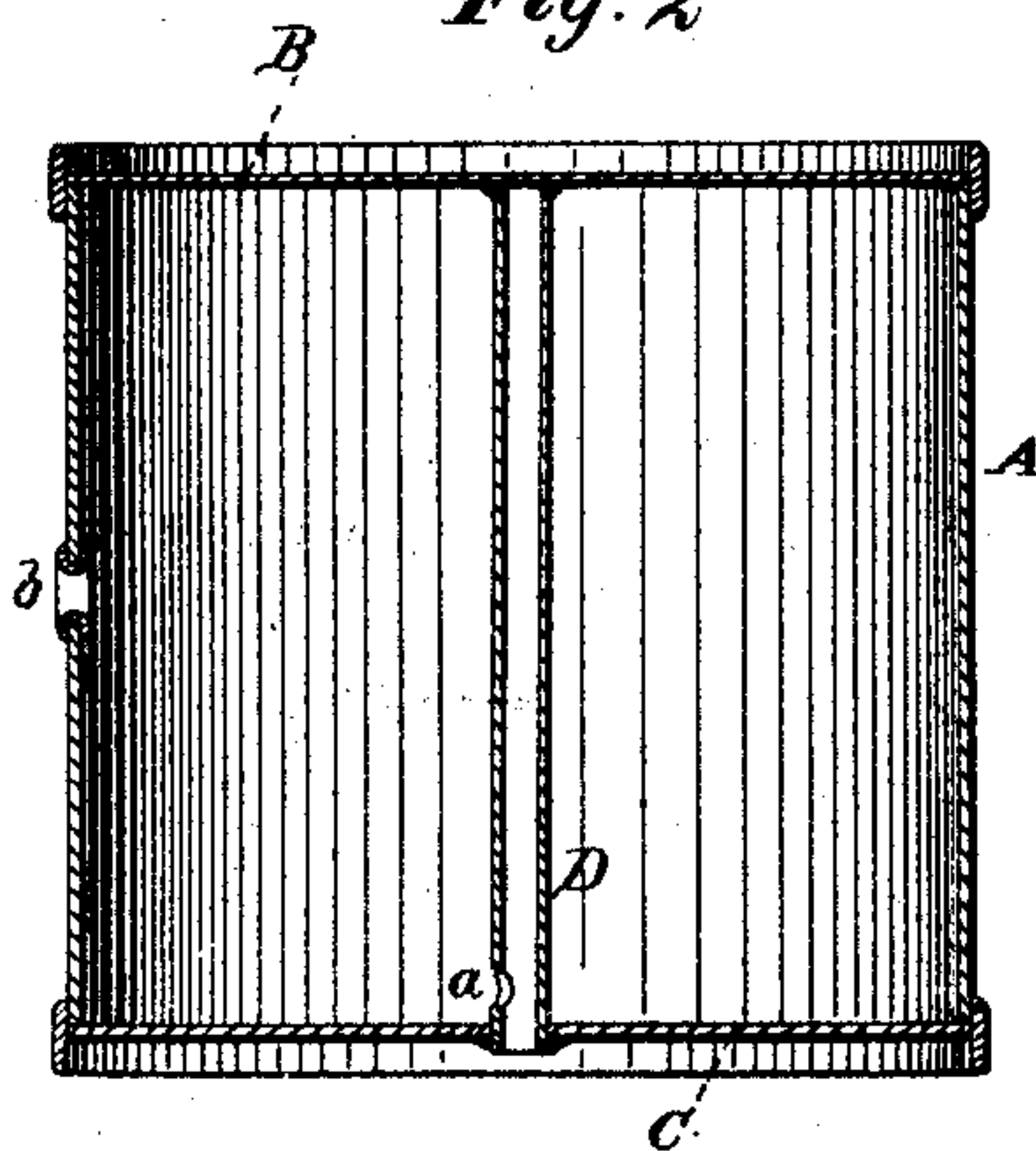
No. 150,814.

Patented May 12, 1874.

*Fig. 1.*



*Fig. 2.*



Witnesses:

Henry N. Miller  
Thomas Byrne

Inventor:

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Attorney.

# UNITED STATES PATENT OFFICE.

JOSEPH BELKNAP, OF ADRIAN, MICHIGAN.

## IMPROVEMENT IN DRUMS.

Specification forming part of Letters Patent No. **150,814**, dated May 12, 1874; application filed January 26, 1873.

*To all whom it may concern:*

Be it known that I, JOSEPH BELKNAP, of Adrian, county of Lenawee and State of Michigan, have invented certain new and useful Improvements in Drums, of which the following is a specification:

The nature of my invention consists in a drum having both the body and heads made of metal; and also in providing a drum, whether the heads and body are made of metal or other material, with one or more sounding-tubes passing from the upper head down through the lower head, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a perspective view, and Fig. 2 a vertical section, of a drum embodying my invention.

A represents the body, B the upper head, and C the lower head, of a drum, all of which parts are made of polished steel, or any other suitable metal, and of any dimensions desired.

A drum made of metal presents a handsome and neat appearance; but the main object and advantage is, that it will produce a louder and sweeter sound than the drums in which sheep-skin heads are used, because the metal heads have more "ring" to them.

In the drum are inserted one or more hollow tubes or sounding-posts, D, the lower ends of which pass through and are soldered to the lower head C. The tube or sounding-post extends then vertically up into the drum, and its upper end is soldered to the upper head B, as shown in Fig. 2 of the drawings. This hollow tube or tubes cause a louder and sweeter sound and more ring, as the vibrations pass down through it and out at the bottom. Each tube D is, within the drum, provided with one or more holes, *a*, and the body A of the drum has also an aperture, *b*, on one side, as shown in Fig. 2.

The hollow tubes or sounding-tubes D may be applied to any drum, of whatever material it may be made.

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

1. A drum having its body and head all made of metal, substantially for the purposes herein set forth.

2. One or more hollow tubes or sounding-posts, D, arranged in a drum, substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing as my invention I hereunto affix my signature this 22d day of January, 1874.

Witnesses: JOSEPH BELKNAP.  
R. R. ROBBINS,  
WILLARD STEARNS.