

DeW. C. CLOUGH.
Journal-Bearings.

No. 152,277.

Patented June 23, 1874.

Fig. 1.

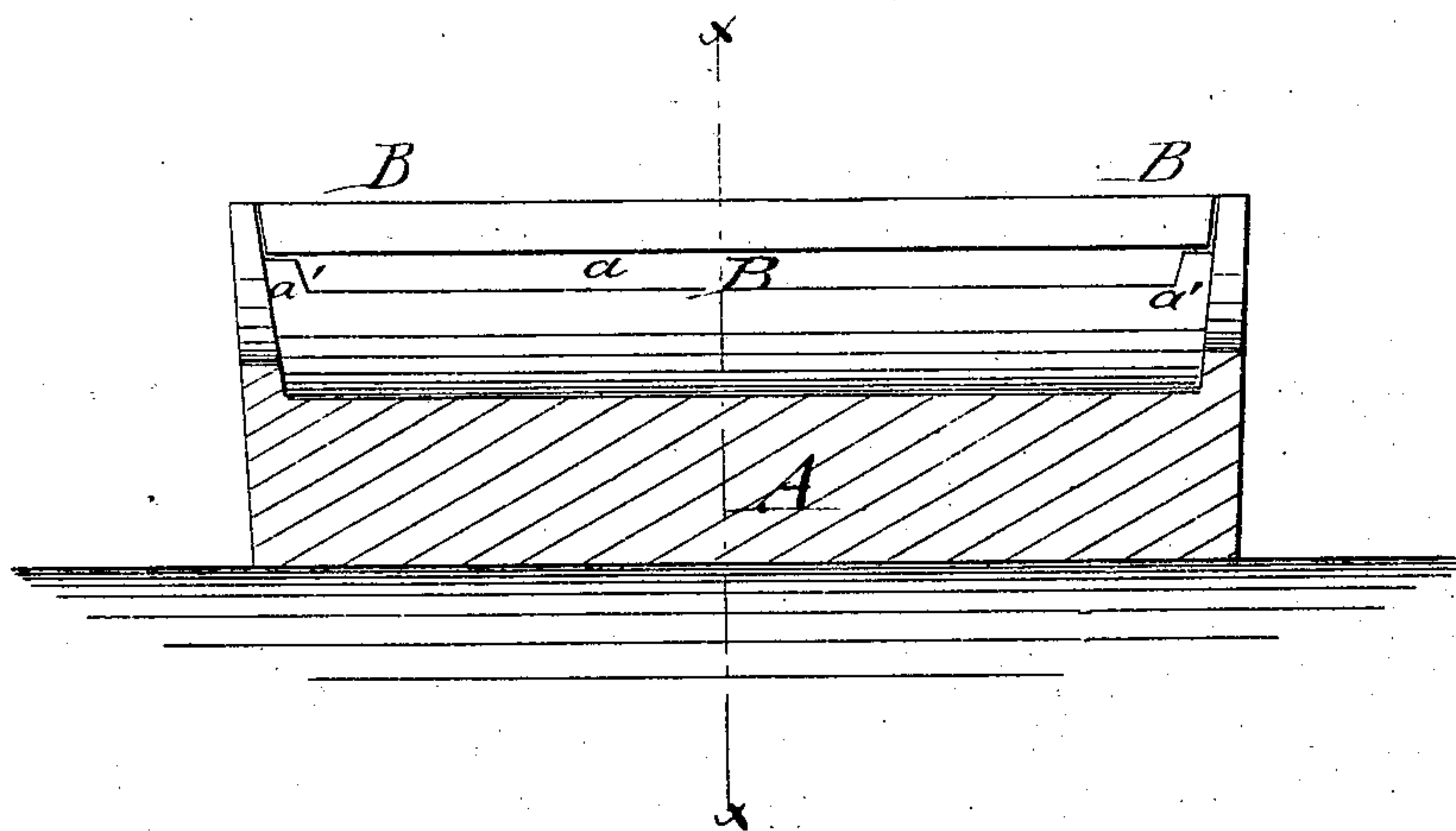


Fig. 2.

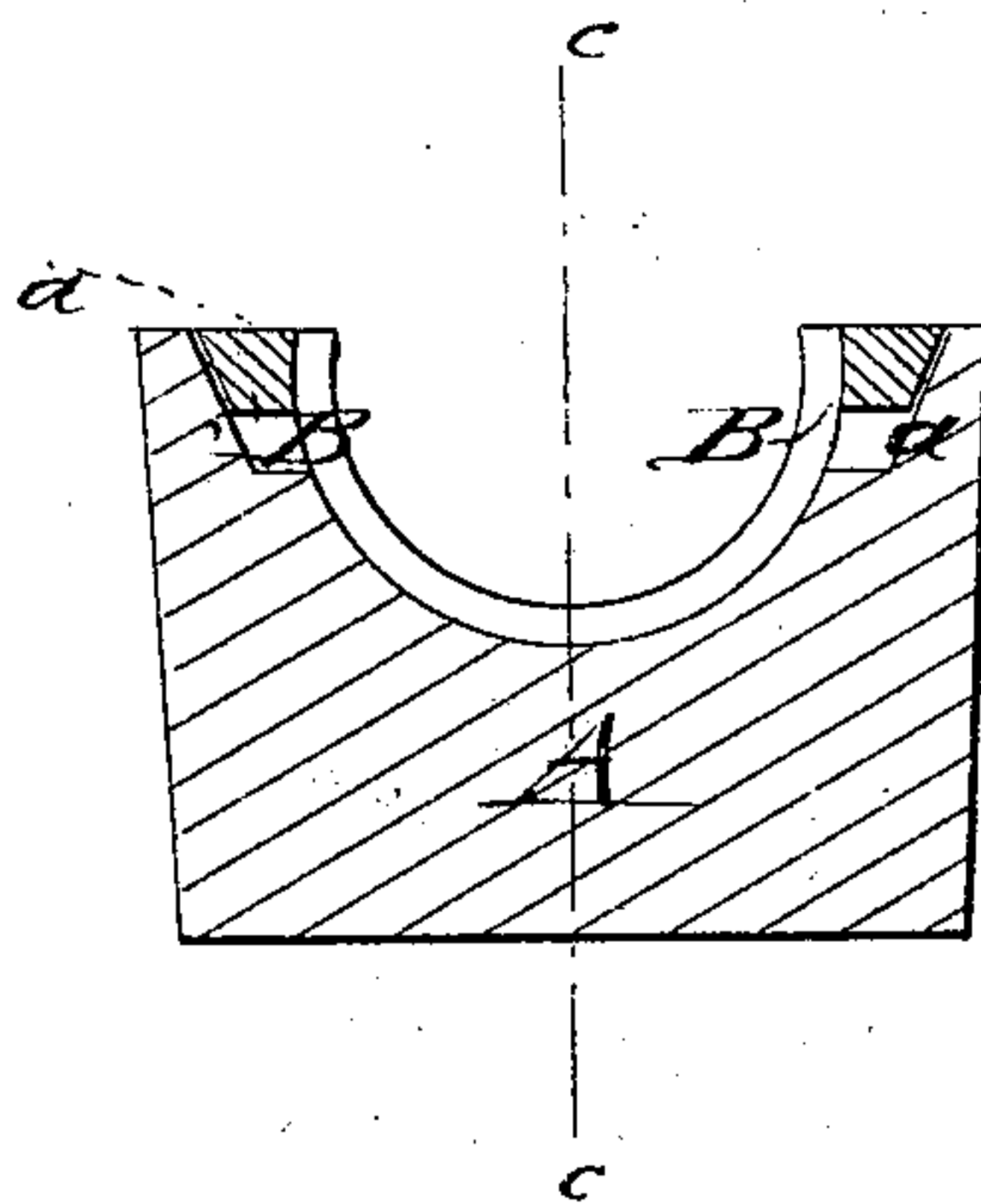
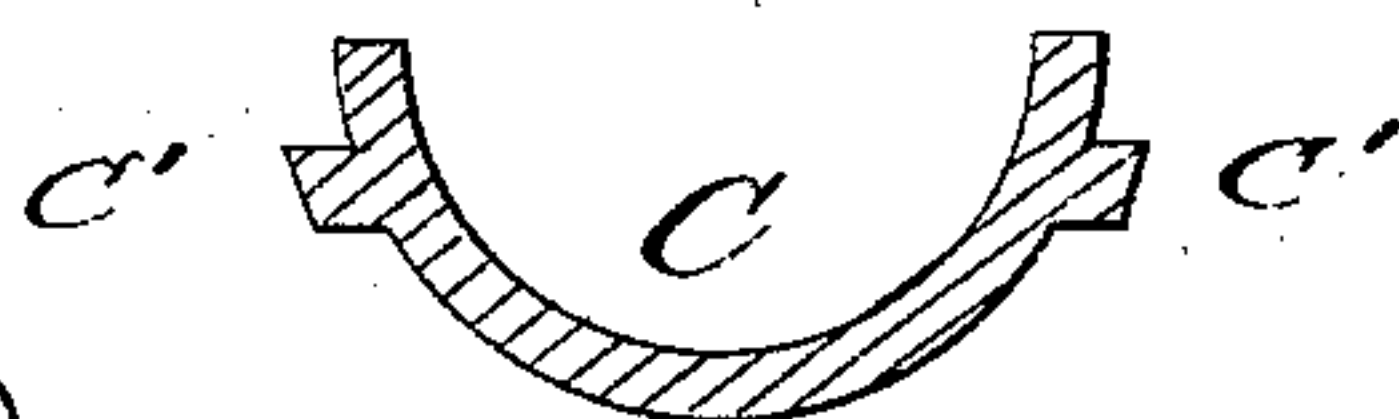


Fig. 3.



WITNESSES.

Chas. Nida.
Alex F. Roberts.

INVENTOR.

De Witt C. Clough.
BY
Munnell
ATTORNEYS.

UNITED STATES PATENT OFFICE.

DE WITT C. CLOUGH, OF AUBURN, NEW YORK.

IMPROVEMENT IN JOURNAL-BEARINGS.

Specification forming part of Letters Patent No. **152,277**, dated June 23, 1874; application filed May 29, 1874.

To all whom it may concern:

Be it known that I, DE WITT C. CLOUGH, of Auburn, in the county of Cayuga and State of New York, have invented a new and useful Improvement in Journal-Boxes with Babbitt-Metal Bearings, of which the following is a specification:

In the accompanying drawing, Figure 1 represents a vertical longitudinal section on the line *cc*, Fig. 2, of the pattern for casting my improved journal-box. Fig. 2 is a vertical transverse section of the same on the line *xx*, Fig. 1; and Fig. 3 a cross-section of the babbitt-metal lining of the box.

Similar letters of reference indicate corresponding parts.

The object of my invention is to construct an improved journal box in such a manner that the bearing or lining of babbitt-metal is rigidly and intimately connected therewith without a possibility of getting detached therefrom. My invention consists in providing the journal-boxes with side grooves or channels, to be filled with babbitt-metal in connection with the journal-bearings.

In the drawing, A represents the pattern for forming the molds for my improved journal-box. It has outer inclined sides, and is provided with inclined side recesses *a*, which extend along the full length of the inner top part of the same, the lower part of the recess forming near the face ends of the box short shoulders *a'*, Fig. 1, for supporting thereon detachable strips *b*, of such size that the lower part of recesses *a*, between shoulders *a'*, is left entirely free when the strips are placed

thereon. The shape of the strips *b* conforms to the inclination of recesses *a*, and the shape of the top part of the box.

For forming the mold the sand is rammed firmly around the outer side of the pattern. The upper part of the mold is obtained by ramming the sand into the semicircular part, and the grooves or recesses formed below the detachable strips. The upper part may be readily lifted from the base part of the mold, as the strips *b* allow the separation without difficulty.

In casting the journal-box the detachable strips are left out of the mold, so that the space taken up by the same is filled up by the metal, forming a solid box with grooves or channels along its sides, into which the babbitt-metal lining or bearing C may be cast and rigidly retained by the extension-flanges C', which are produced by the filling up of the side grooves of the box, as shown in Figs. 2 and 3.

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

A journal-box, cast with longitudinal side grooves or channels, extending between shoulders near the face parts for producing a firm binding of the babbitt-metal lining cast therein, substantially in the manner and for the purpose set forth.

DE WITT C. CLOUGH.

Witnesses:

F. G. DAY,
HERBERT D. CLOUGH.