

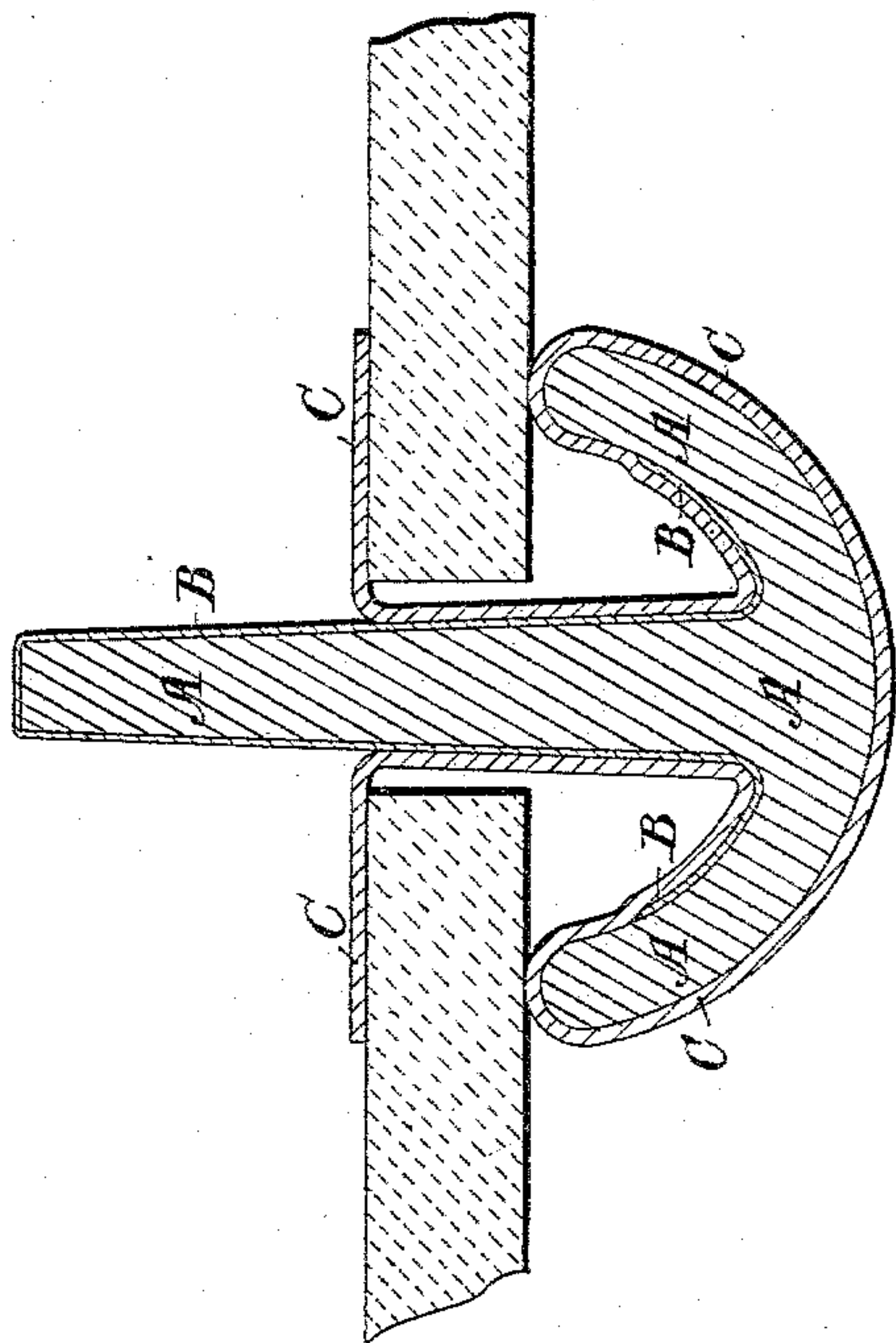
(No Model.)

J. D. MACKENZIE.

MEANS FOR USE IN THE GLAZING OF ROOFS AND OTHER STRUCTURES.

No. 356,652.

Patented Jan. 25, 1887.



Witnesses.

George W. Pea.

Robert Everett.

Inventor.

Joseph D. MacKenzie.

By James L. Norris.

Atty.

UNITED STATES PATENT OFFICE.

JOSEPH D. MACKENZIE, OF LONDON, ENGLAND, ASSIGNOR OF ONE-HALF TO
WILLIAM ATCHISON, OF SAME PLACE.

MEANS FOR USE IN THE GLAZING OF ROOFS AND OTHER STRUCTURES.

SPECIFICATION forming part of Letters Patent No. 356,652, dated January 25, 1887.

Application filed June 18, 1884. Serial No. 135,331. (No model.) Patented in England January 18, 1884, No. 1,690, and March 4, 1884, No. 4,360.

To all whom it may concern:

Be it known that I, JOSEPH DUKE MACKENZIE, a subject of the Queen of Great Britain, residing at London, England, have invented
5 new and useful Improvements in Means for Use in the Glazing of Roofs and other Structures, (for which patents have been applied for in Great Britain, dated January 18, 1884, No. 1,690, and March 4, 1884, No. 4,360,) of which
10 the following is a specification, reference being had to the accompanying drawing.

My invention relates to the glazing of roofs, conservatories, and other structures, and is designed to enable this operation to be performed
15 without the use of putty or like material.

According to my improvements I construct a sash-bar with a solid core of iron or steel, consisting of a central vertical web and lateral
20 grooved or channeled flanges, and with a protective sheath or covering of thin sheet lead, copper, or other ductile metal not subject to corrosion, and I apply over this protective covering an outer covering of sheet metal or other
25 glazing material.

This invention is illustrated by the accompanying drawing, in which the figure is a transverse sectional view through a sash-bar and glasses.

In order to enable those skilled in the art to make and use my invention, I will now describe the same in detail, referring to the drawing, where the letter A indicates the core of the sash-bar, B the non-corrosive and protective
30 sheath or covering, and C the lead or other ductile material.

The non-corrosive covering B is applied by rolling or otherwise to the central web or

feather of the iron or steel core A of the sash-bar and to the groove or channel on each side of the said central web, so that if any water
40 should percolate between the sash-bar and the glazing material it will not come in contact with the metal core, but will be received and conducted away by that portion of the protective sheath or covering which is within the
45 groove or channel. The metal core is thus completely protected against contact with substances liable to cause corrosion thereof. The outer covering, C, of lead or other ductile glazing material, is folded down after the plates of
50 glass are placed on the flanges of the bar A, so that the said covering overlaps the edges of the glass.

Having thus described my invention, what I claim is—
55

A solid metal sash-bar of substantially the form shown, having its central web or feather and the inner surfaces of the grooves or channels covered by a protective sheathing, B, in combination with the glazing material C, applied over said sheathing and covering the
60 flanges of the sash-bar and part of its central web or feather and overlapping the glass, substantially as and for the purposes set forth.

In testimony whereof I have hereunto signed
65 my name in the presence of two subscribing witnesses.

JOSEPH D. MACKENZIE.

Witnesses:

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