

James L. Jackson's Imp^t in Frames for Sashes etc.

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PATENTED JUL 4 1871

Fig. 1

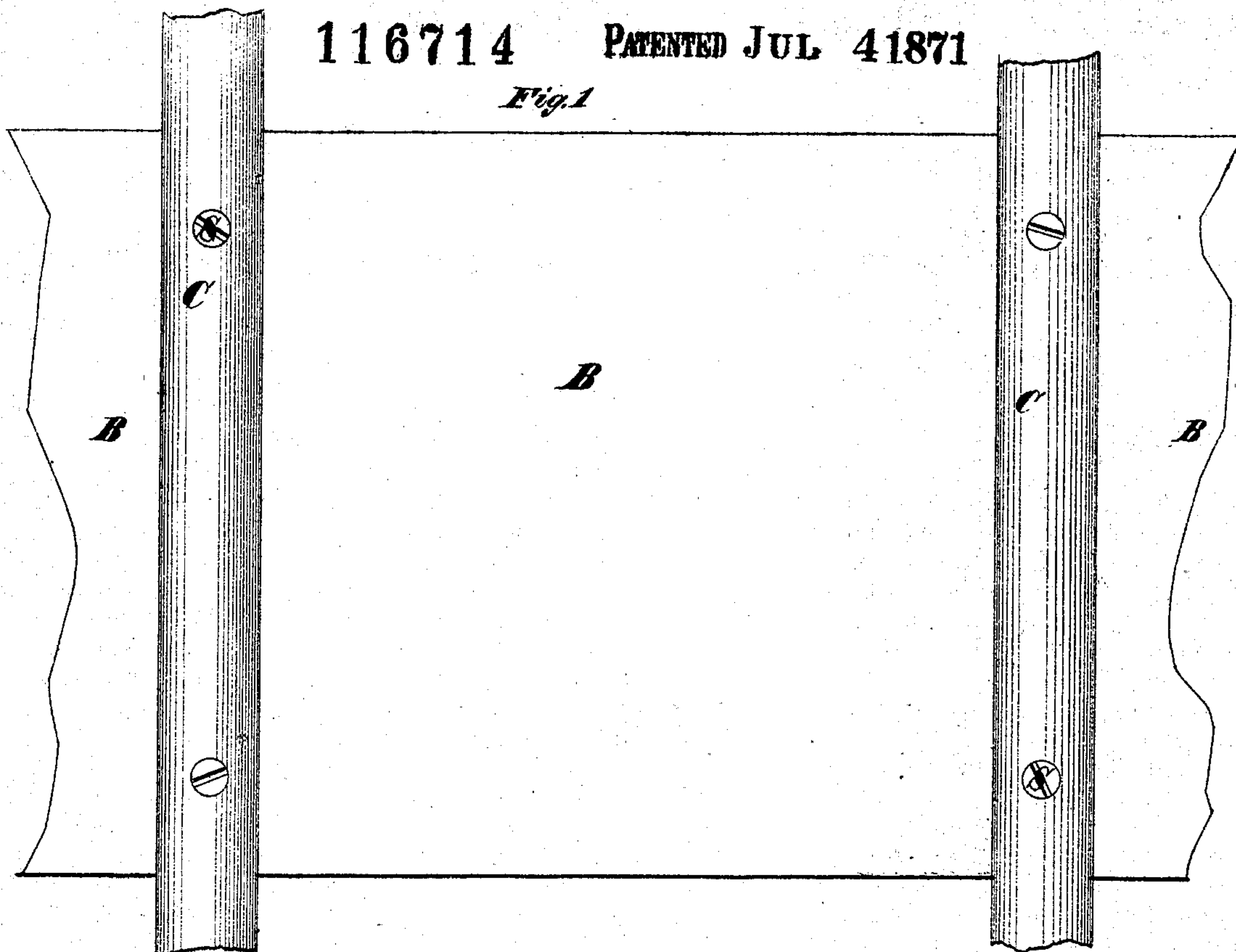


Fig. 2

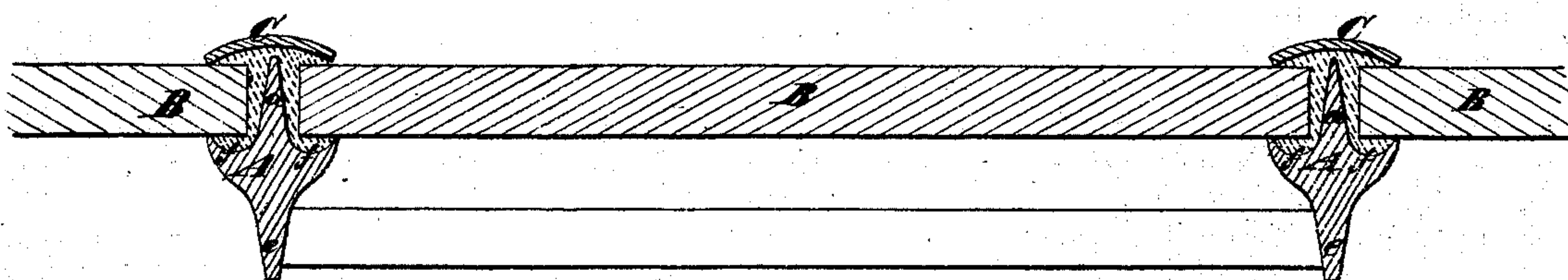
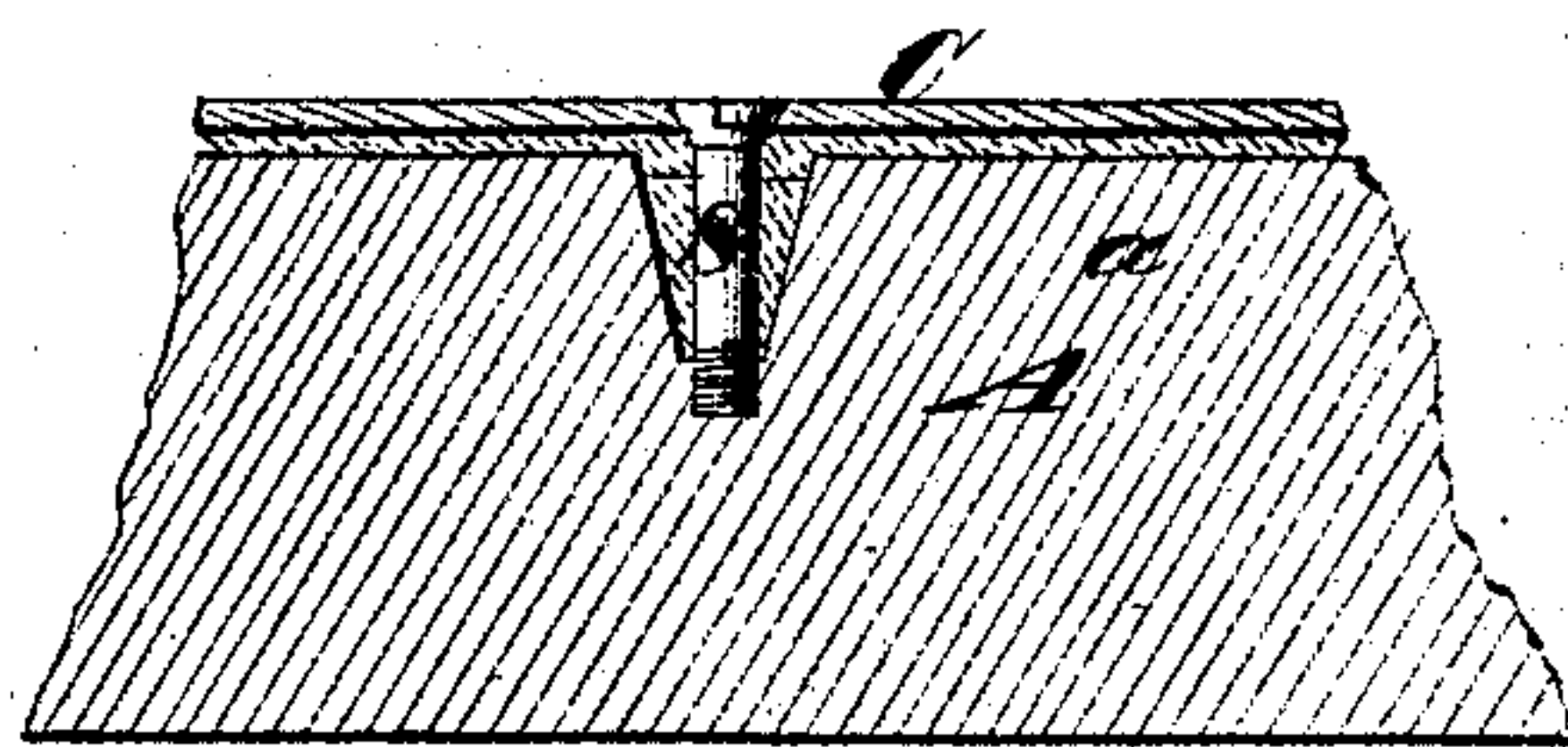


Fig. 3



James L. Jackson

Witnesses
Friedman
and *Meek*

UNITED STATES PATENT OFFICE.

JAMES L. JACKSON, OF NEW YORK, N. Y.

IMPROVEMENT IN FRAMES FOR SASHES, ROOF SKY-LIGHTS, &c.

Specification forming part of Letters Patent No. 116,714, dated July 4, 1871.

To all whom it may concern:

Be it known that I, JAMES L. JACKSON, of the city, county, and State of New York, have invented a new and useful Improvement in Frames for Sashes, Roof-Lights, &c.; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing forming a part of this specification.

The cause of leakage in sashes and roof-lights of ordinary construction is that the putty used to make the glass tight at its edges, being exposed to the weather, soon oxidizes or dries up, and is thereby caused to separate from the sash-ribs, thereby producing leakage. The object of this invention is to prevent leakage from this cause; and to this end it consists in a novel construction of the ribs and a novel arrangement of covering-strips in combination therewith, whereby the putty or other water-proof cement is entirely inclosed and protected from the weather, and clamped around the joints at the edges of the glass-panes, which are made perfectly tight and extremely durable.

In the accompanying drawing, Figure 1 is a face view of a portion of a roof-light constructed according to my invention. Fig. 2 is a transverse section through the bars of the same. Fig. 3 is a longitudinal section of a portion of one of the ribs thereof.

Similar letters of reference indicate corresponding parts in all the figures.

A A are the ribs, each of which has, on its lower side, a longitudinal fin or feather, *e*, and on its upper side a longitudinal fin or feather, *a*, at the sides of which are formed grooved shoulders or gutters *f f*. The depth of the upper fin or feather *a* from the outer edge of the gutters *f f* should, preferably, be not less than the thickness of the panes B B which are used in the sash, that when they rest upon the said edges of the

gutters the rib may project slightly above it, as shown in Fig. 2. C C are the metal covering-strips; of arched form in their transverse section, and of a width about equal to the extreme width of the ribs A A outside of the gutters *f f*. The edges of these strips bear on the upper sides of the panes B B, immediately over the outer edges of the gutters *f f* of the ribs, and are secured to the said ribs by screws S S screwing thereinto, and are thereby made to clamp the said panes B B securely to the ribs. The space between the panes B B and the strips C, and around the fin or feather *a*, and in the grooves or gutters *f f* in the ribs A A, is fitted with putty, which, before the covering-strip is put on, is inserted in sufficient quantity to more than fill the space, any excess being pressed out by screwing down the covering-strip. The putty, thus compressed or packed and inclosed, making an absolutely tight joint, and, being protected, is prevented from oxidizing, drying up, or perishing, renders the joint extremely durable.

The ribs thus constructed may extend both lengthwise and crosswise of the sash, and the covering-strips will, of course, be made to correspond in form. Where the screws S S screw into the ribs the upper fin *a* may be notched or cut away, as it is too thin to hold the screws which must screw into the thicker portion of the rib between the gutters.

What I claim as my invention, and desire to secure by Letters Patent, is—

The combination of the rib A, constructed with gutters or shoulders for the support of the glass, substantially as described, and the covering-strip C secured to the rib, clamping the glass thereon and inclosing the putty or cement, substantially as and for the purpose specified.

Witnesses: JAMES L. JACKSON.

FRED HAYNES,
R. E. RABEAU.