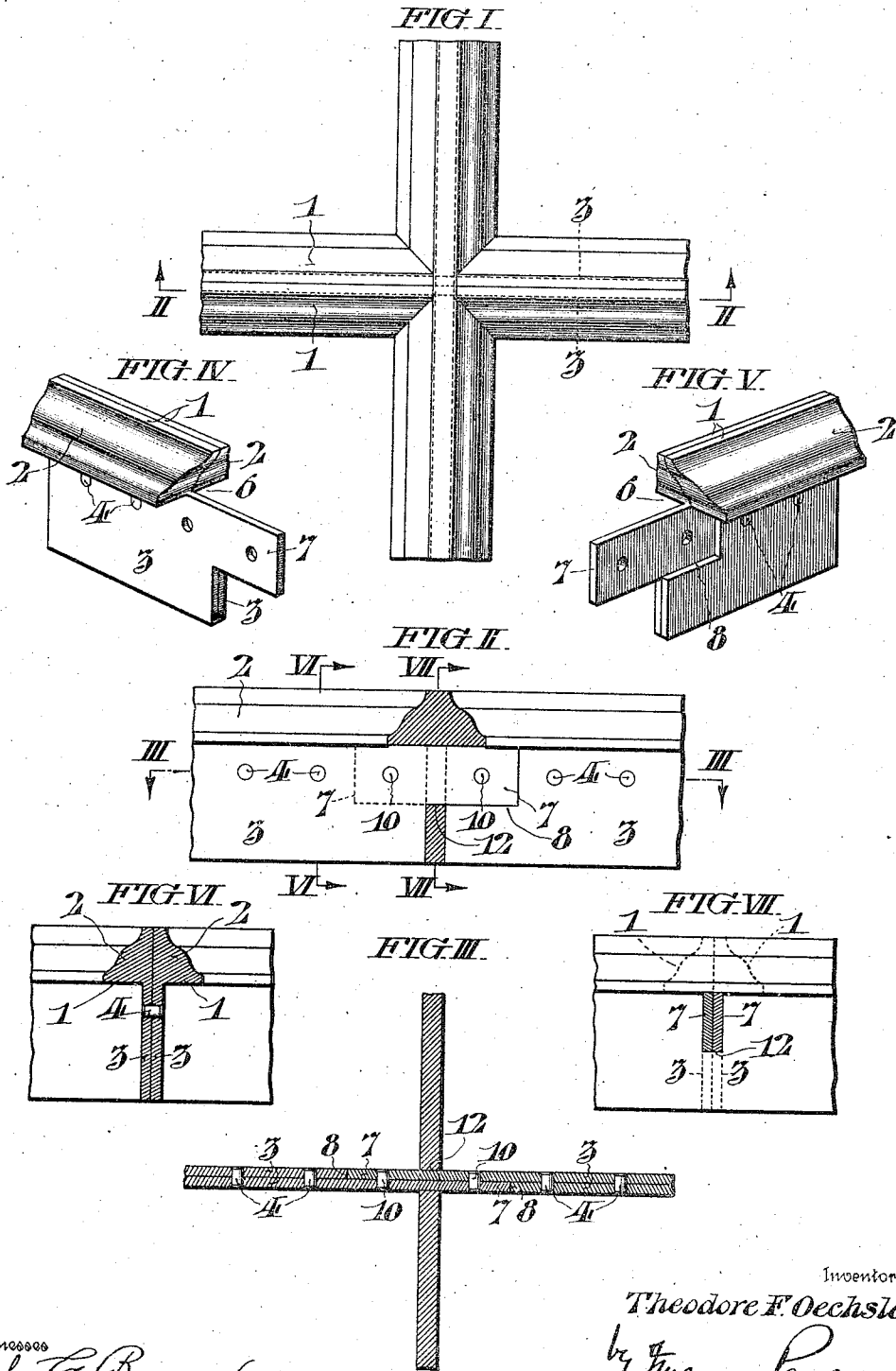


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METAL SASH BAR.
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Patented May 20, 1913.



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UNITED STATES PATENT OFFICE.

THEODORE F. OECHSLE, OF PHILADELPHIA, PENNSYLVANIA.

METAL SASH-BAR.

1,062,354.

Specification of Letters Patent.

Patented May 20, 1913.

Application filed February 21, 1911. Serial No. 610,071.

To all whom it may concern:

Be it known that I, THEODORE F. OECHSLE, of Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Metal Sash-Bars, whereof the following is a specification, reference being had to the accompanying drawings.

My invention relates to a metal sash bar which is made by uniting two separately rolled metallic pieces each similar to the other, and each constituting one-half of the sash bar as divided along its median plane.

Where there are crossing bars, the compound metal sash bar may be used in connection with a solid bar of the same shape, the compound bar being employed for the bar which is broken at the crossing. Under these circumstances the union between the solid bar and the ends of the broken bar may be conveniently formed by a double overlapping tenon joint, passing through a mortise hole in the solid bar.

In the accompanying drawings, Figure I, is a plan view of two crossing sash bars one of them, (the horizontal bar) being split so as to embody my invention. Fig. II, is a partial section along the line II, II, of Fig. I. Fig. III, is a section along the line III, III, of Fig. II. Figs. IV, and V, are respective views of two oppositely abutting ends of my sash bar showing the joint employed for effecting the union with a crossing bar. Figs. VI, and VII, are transverse sections respectively along the line VI, VI, and VII, VII, in Fig. II.

My sash bar is a compound or split bar each part being like the other, the bar being split along its median line. Under these circumstances, each half bar 1, comprises half of the molding 2, and half of the tongue 3. I find that a half bar of this general contour can be very conveniently rolled.

The two halves are united at their flat faces preferably by riveting as shown in Figs. III, IV, and V, the rivets 4, passing through the tongues of the bar. Both the

horizontal and vertical bars of a sash may be constructed in the manner above described. It is however, convenient to construct those bars which are to pass without break from one edge of the sash to the other as a single metal bar, while the bars which run crosswise to these, and which are broken at the crossings to form the intersections are compound or split according to my invention as I have described it. The joint at the intersection point is then made as follows:—The moldings of the two abutting ends are undercut, as at 6, so as to fit accurately against the molding of the solid bar against which they abut, as shown in Figs. IV, and V. Each of the abutting ends has a portion of one of the pieces of the tongue projected in the form of a half tenon 7, 7, the companion piece of the other abutting end being correspondingly cut away as at 8, to receive the projecting tenon. When the parts are assembled the two tenons overlap and may be riveted together as at 10, 10.

The solid bar against which the two compound bars abut has pierced through it a mortise hole 12, in such position as to receive the overlapping tenons, the joint thus formed being fully illustrated in Fig. II.

Having thus described my invention, I claim:—

Crossing metal sash bars, one of which has the tongue mortised; and the other of which is a compound bar divided into halves along its median plane and broken so that its ends abut the sides of the solid bar; one half of each compound bar projecting as a tenon from its abutting end; two of these tenons overlapping and being received within the mortised tongue of the first named bar.

In testimony whereof, I have hereunto signed my name at Philadelphia, Pennsylvania, this sixteenth day of February 1911.

THEODORE F. OECHSLE.

Witnesses:

JAMES H. BELL,
E. L. FULLERTON.