

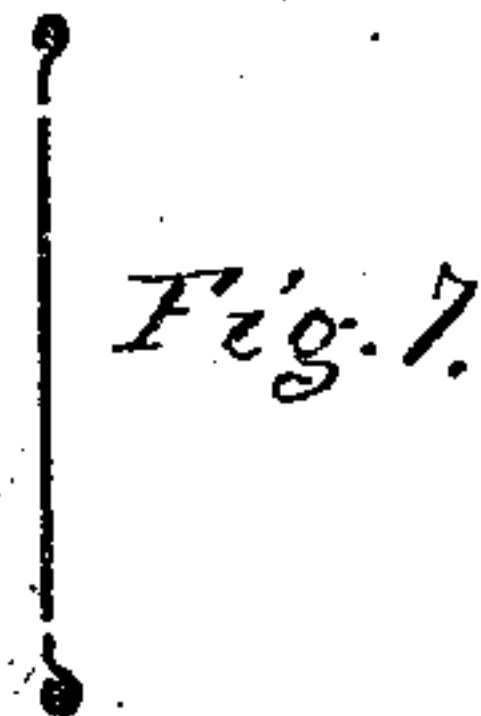
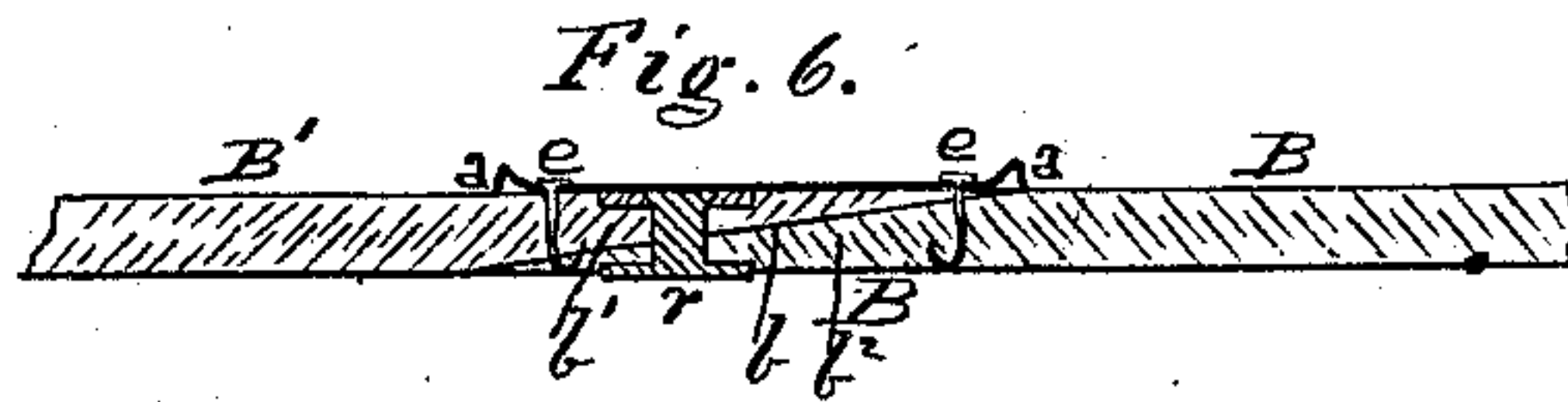
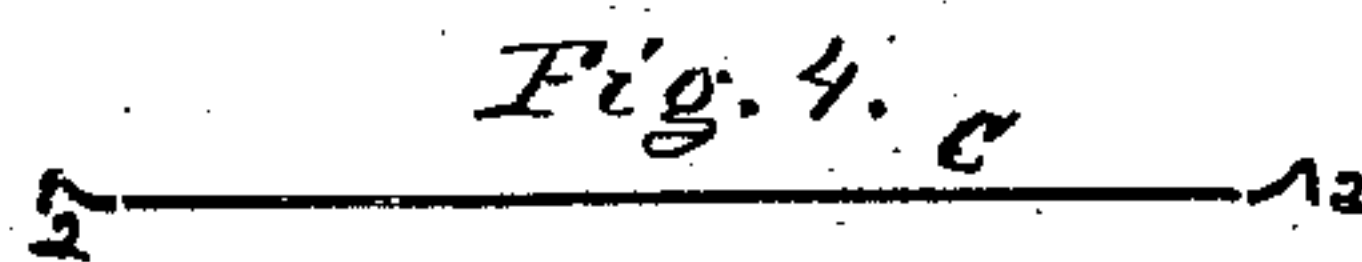
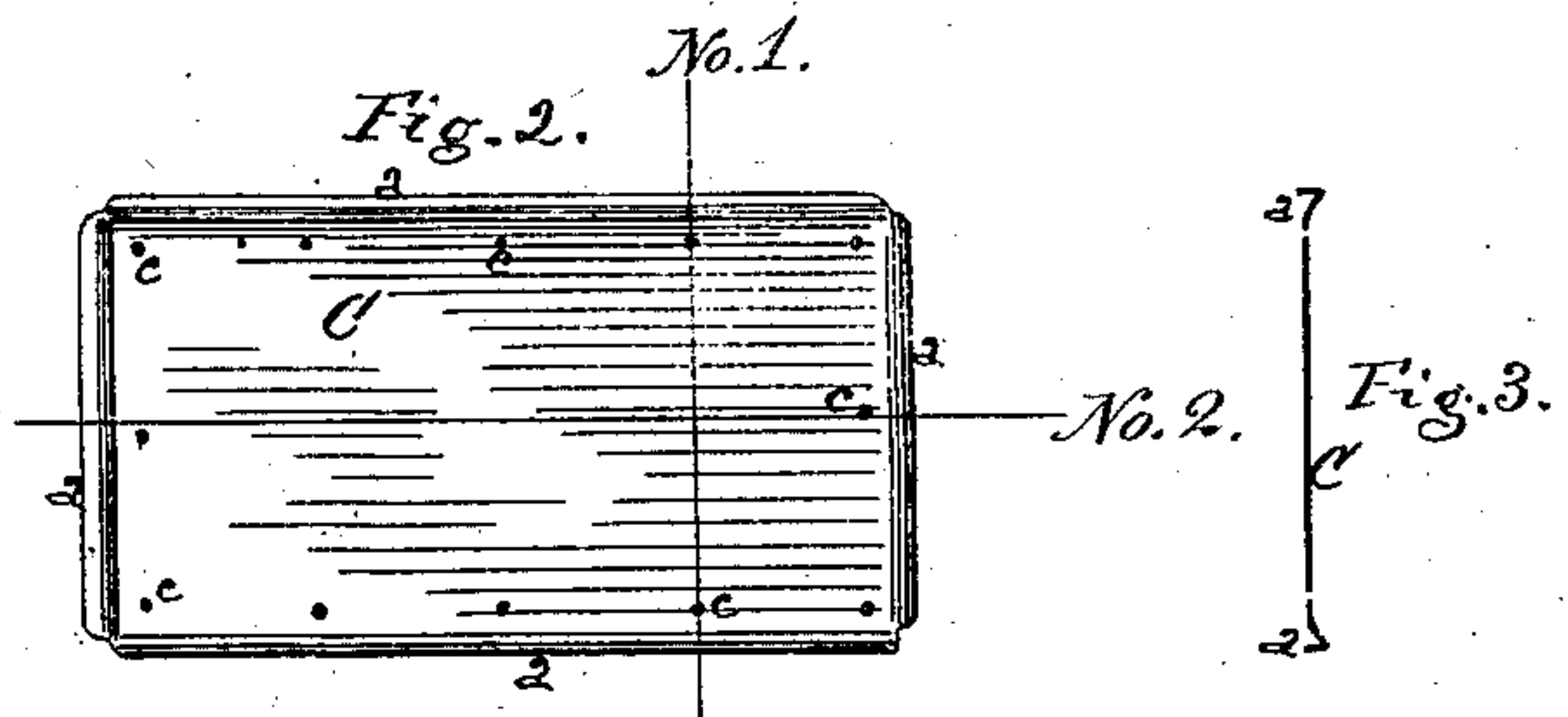
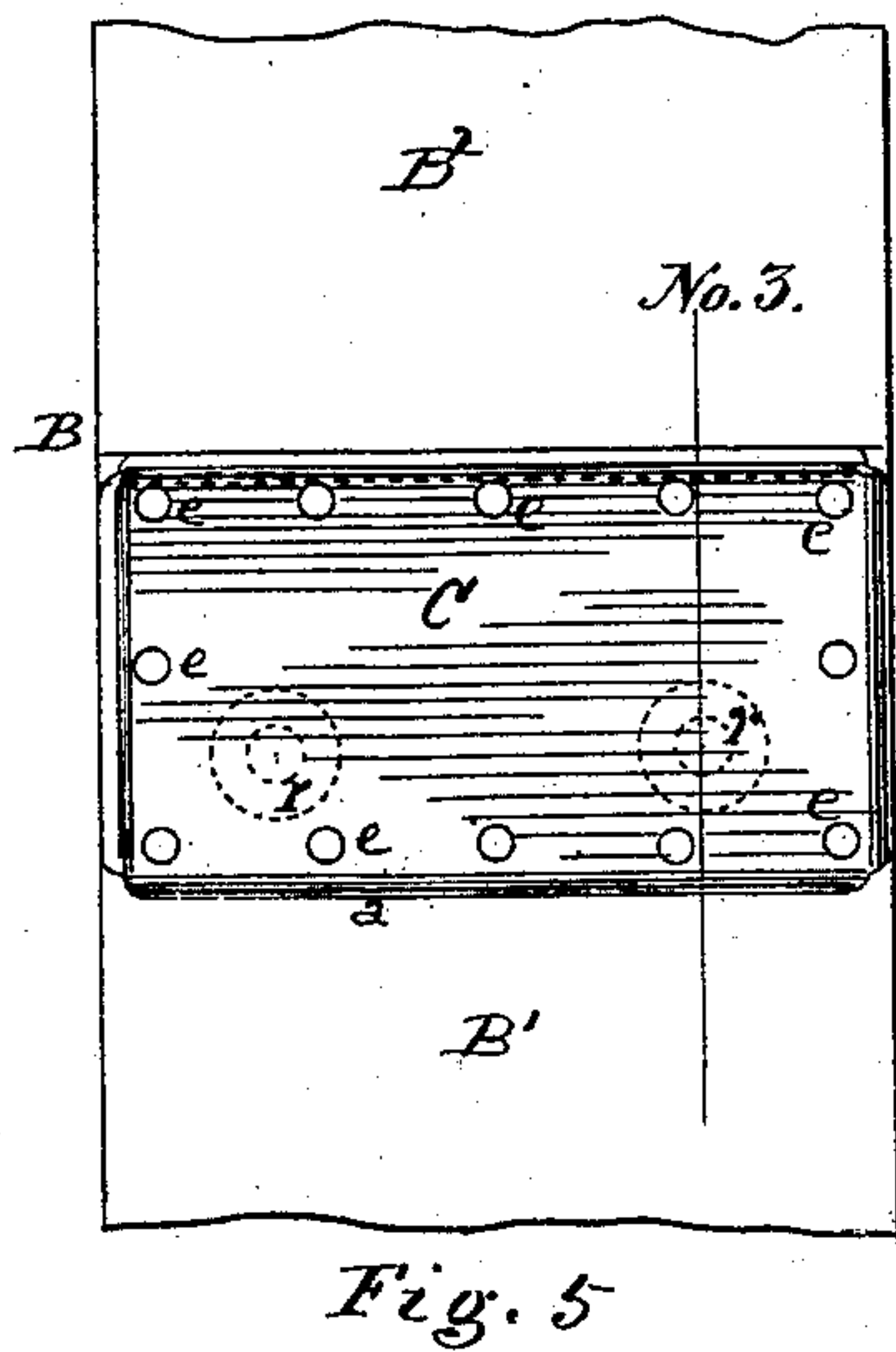
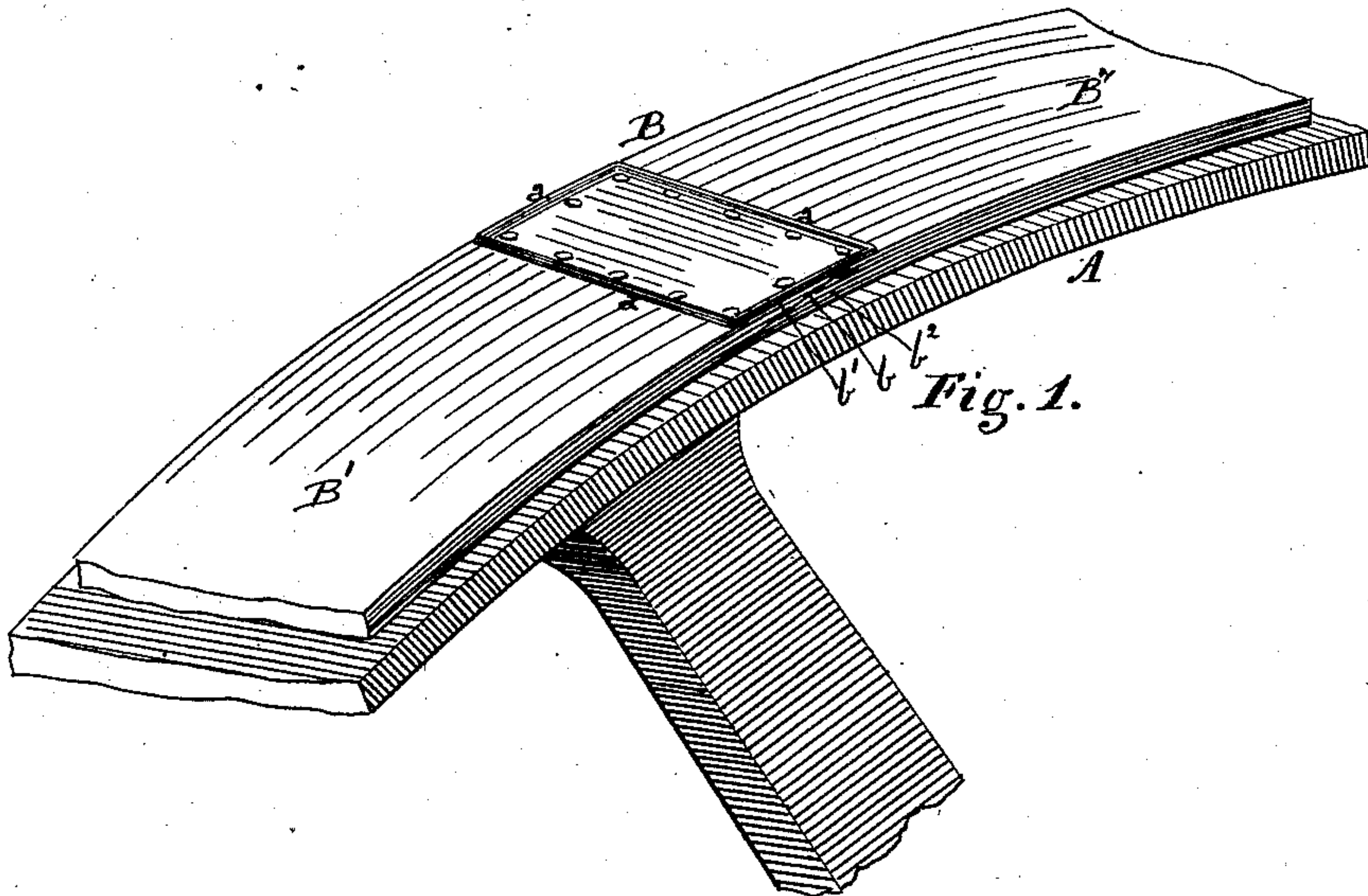
(No Model.)

J. J. BRISLIN.

DEVICE FOR JOINING THE ENDS OF LEATHER BELTING.

No. 272,523.

Patented Feb. 20, 1883.



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UNITED STATES PATENT OFFICE.

JOHN J. BRISLIN, OF ALBANY, NEW YORK, ASSIGNOR TO EDWARD S. LEWIS, OF SAME PLACE.

DEVICE FOR JOINING THE ENDS OF LEATHER BELTING.

SPECIFICATION forming part of Letters Patent No. 272,523, dated February 20, 1883.

Application filed December 14, 1882. (No model.)

To all whom it may concern:

Be it known that I, JOHN J. BRISLIN, a citizen of the United States, and a resident of Albany, in the county of Albany and State of New York, have invented a new and useful Improvement in Devices for Use in Splicing Leather Belting, of which the following is a specification.

My invention relates to a new device for use with leather belts which are spliced with lapped joints and riveted, and to the combination, with the scarfed and lapping ends of a spliced leather belt which are held joined together by rivets, of a plate of thin sheet metal so secured to the splice-joint of the belt by clinch-nails as to be on the outer side of the same and over the feather-edge end of the outer lap of the belt.

The objects of my improvements are, first, to produce a sheet-metal plate with a strengthening-flange made with its marginal edges, and perforated at intervals at near the same for receiving clinch-nails, which will be adapted to be applied to the outer side of the belt and over the feather-edge end of the outer lap of the splice-joint, to hold the same from breaking away from the base of the scarf of the opposite side lap of the spliced portions of the belt; second, to so combine with a splice-joint of leather belt, and on the outer side thereof, and over the feather-edge end of the outer scarfed piece of the same, a metal plate of sheet metal, which is secured firmly in place by a series of clinch-nails passing at intervals through the marginal-edge portions of the plate, whereby the said feather-edge end of the outer scarfed and lapped portions of the belt will be securely and positively held down on the base of the scarfed lap of the inner con-

joined portion of the belt. I attain these objects by the means illustrated in the accompanying drawings, in which the same letters of reference indicate like parts throughout the several views.

Referring to the drawings, Figure 1 represents a section of a band-pulley and a section of a band or belt which embodies the improvements of my invention. Fig. 2 is a perspective view of my improved belt-splice plate. Fig. 3 is a cross-sectional view of the same,

taken at line No. 1 in Fig. 2. Fig. 4 is a sectional view taken in the transverse, as at line No. 2 in Fig. 2. Fig. 5 is a plan view of the spliced portion of a leather belt with my improved belt-splice plate secured in position thereto. Fig. 6 is a longitudinal sectional view of the same, taken at line No. 3 in Fig. 5; and Fig. 7 illustrates a modification of the edge flange of the belt-splice plate.

In the drawings, A represents a section of a band wheel or pulley, and B is a section of a leather belt or band to which my invention is applied. The said belt or band is shown to be composed of two spliced sections, B' and B², in which the spliced ends are made with a scarfed lap-joint, b, with the scarf b' of section B' overlying scarf b² of section B², as shown in Figs. 1 and 6. The scarfed ends of the respective sections B' and B² are cemented together and secured by rivets r r, as indicated by dotted lines in Fig. 5 and shown by full lines in Fig. 6.

C is my improved belt-splice plate, made of thin sheet metal—such as thin sheet copper, brass, iron, tin, or annealed sheet-steel—with a length about equal to the width of the belt the plate is to be used with, and with a width of about one and a quarter inch. This thin sheet-metal plate has its marginal edges stiffened by a narrow flange-rim, a, as shown. The said flange-rim is preferably formed by bending back the edge portion of the plate to a small distance above the plane of the upper side surface of the same, and then turning the same on itself in a vertical line, or in a line at about right angles with the plane of the body of the plate, as shown in Figs. 3 and 4. A continuous strip of wire of small diameter may be inserted in said flange-edge, and secured by the metal of the flange-edge being wrapped around the wire, as in Fig. 7. Made in the marginal edges of said plate, and within the bounding flange-edges of the same, at a short distance therefrom, are perforations c c c, and made at intervals of about half an inch apart, as shown. The said perforations are intended to receive clinch-nails c c c and adapt the plate to be secured to the leather belt or band B. The said belt-splice plate is secured to the outer side of the belt or band B in such a manner that one of its side flange-rim edges, a, will be

extended a little past the feather-edge end of scarfed lap *b'* of the spliced portion *B'* of the belt, as shown by full lines in Figs. 1 and 6 and indicated by full and dotted lines in Fig. 5.

5 When the plate has been thus arranged in relation to the belt and its lap-joint splice, it will be secured in place by means of clinch-nails *e*, passing through perforations *ee*, made in said plate, and driven through the leather of the
10 belt and clinched, as shown in Fig. 6.

In use the plate *C* operates first to hold the feather-edge end of the scarfed lap *b'* of the portion *B'* of the spliced belt firmly and securely down on the base of the scarfed lap *b²* of the portion *B²* of the same, and protects the
15 same from becoming loosened, as is the case in spliced belts as heretofore unprotected. The plate with the clinched nails relieves to a great degree the cement and rivets *r* from the strain
20 which heretofore was exerted on the cement or rivets of the splice. The flange-edges *a a* of the plate operate to stiffen the marginal edges of the same, between the clinch-nails,
25 of the belt.

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

1. The belt-splice plate *C*, made of thin sheet metal, and having a flanged rim-edge, *a a*, and
30 provided with perforations *ee*, made at intervals apart and at a short distance from said flanged edges, and adapted to receive clinch-nails or their known equivalents, substantially
35 as and for the purpose set forth.

2. The combination, with a scarfed lap-joint
40 of a leather belt, in which the laps are secured together by rivets or cement, or both, of the belt-splice plate *C*, made of thin sheet metal, and secured on the outer side of the belt and
45 over the scarfed lap-joint of the spliced portions of the same, with one of its marginal side edges bearing on the feather-edge end of the outer lapping portion of the splice, and the clinch-nails *ee*, substantially as and for the
45 purpose set forth.

JOHN J. BRISLIN.

Witnesses:

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