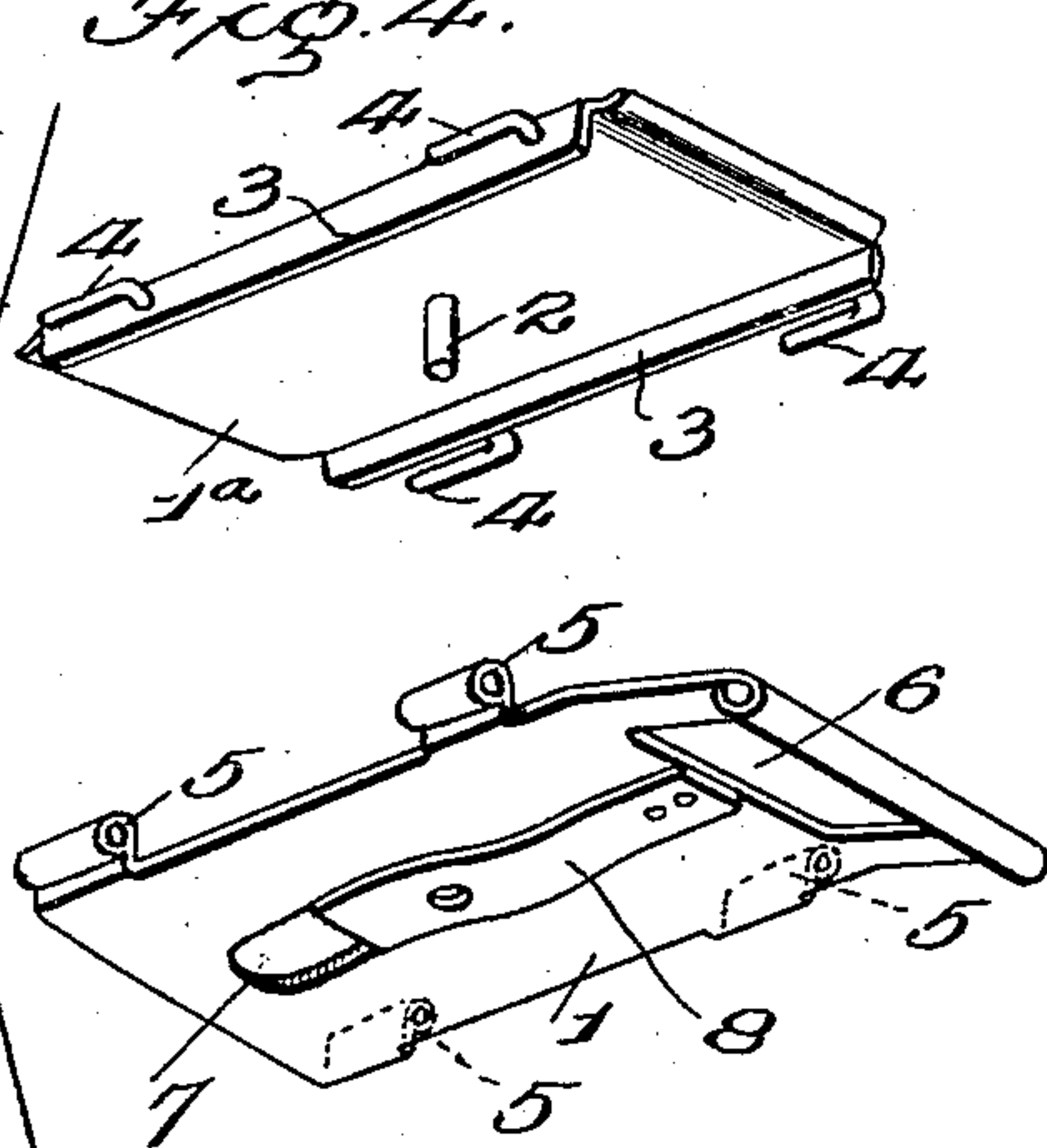
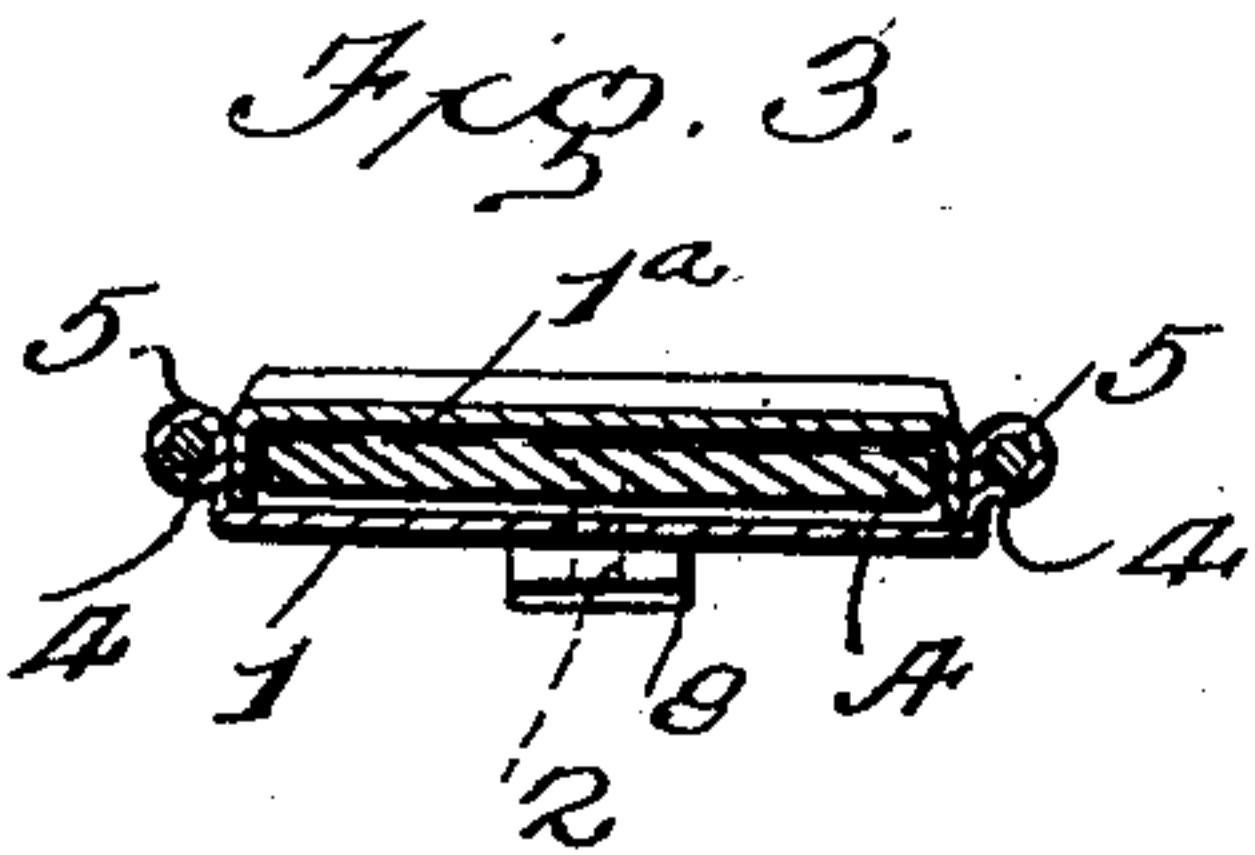
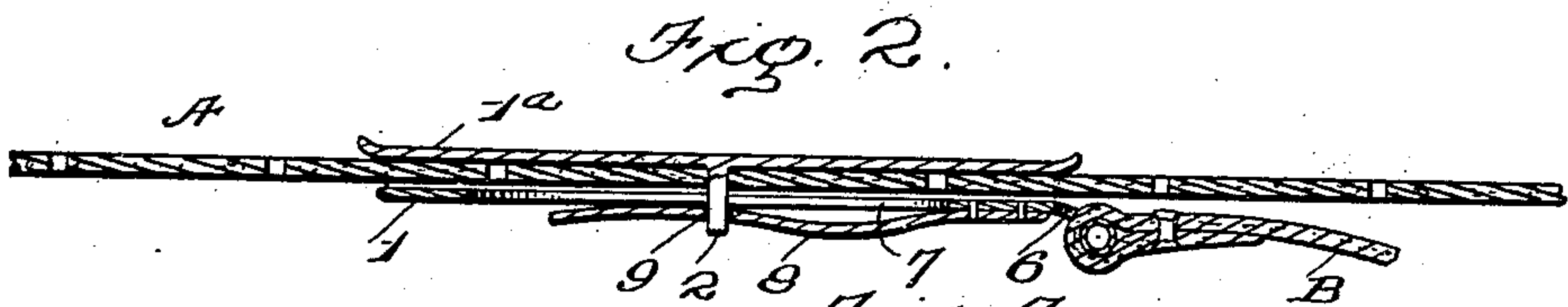
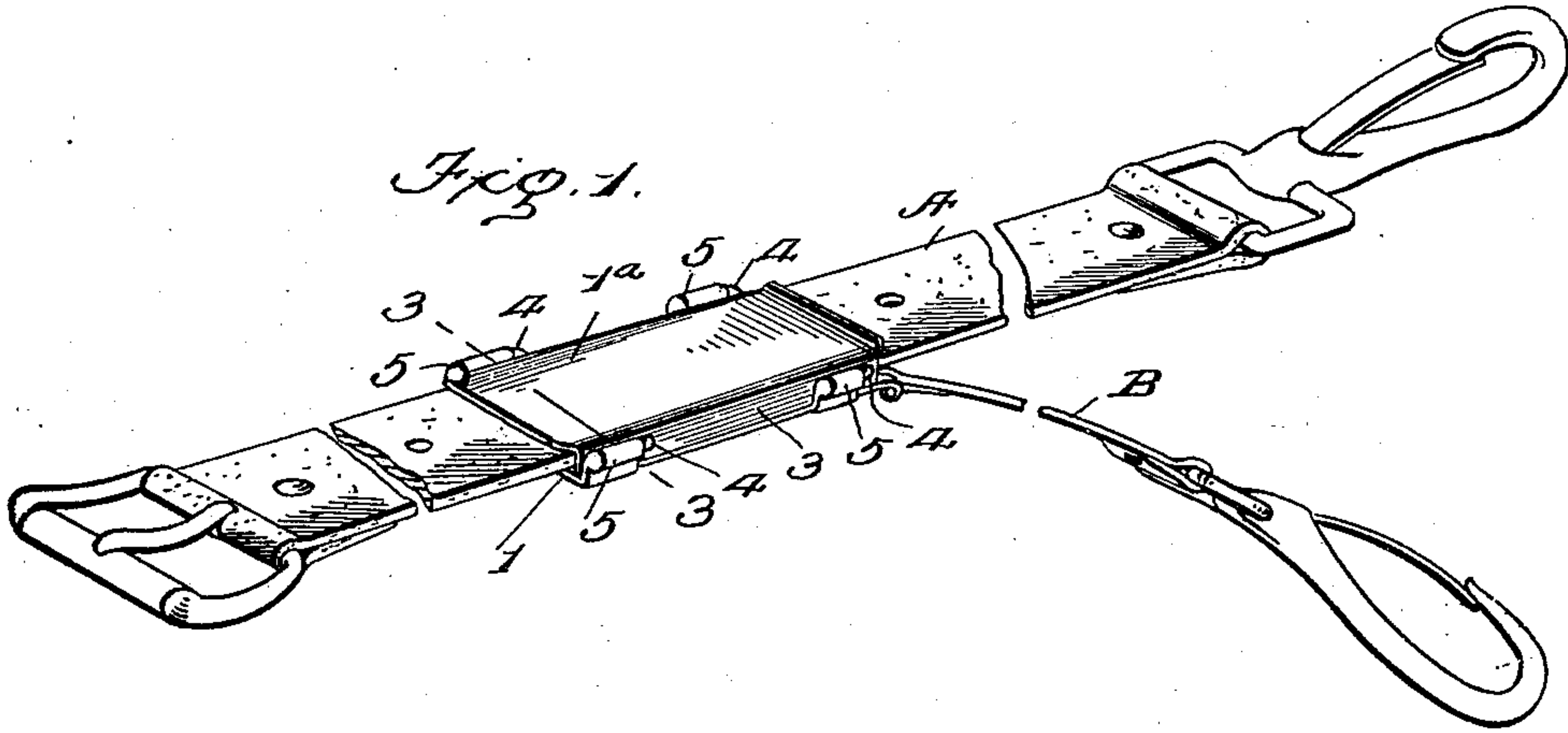


E. M. DRY.
CROSS LINE BUCKLE.
APPLICATION FILED APR. 16, 1908.

904,518.

Patented Nov. 24, 1908.



Witnesses

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By

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UNITED STATES PATENT OFFICE.

EARL M. DRY, OF MADISON, MISSOURI.

CROSS-LINE BUCKLE.

No. 904,518.

Specification of Letters Patent.

Patented Nov. 24, 1908.

Application filed April 16, 1908. Serial No. 427,505.

To all whom it may concern:

Be it known that I, EARL M. DRY, citizen of the United States, residing at Madison, in the county of Monroe and State of Missouri, have invented certain new and useful Improvements in Cross-Line Buckles, of which the following is a specification.

The object of this invention is an improved cross line buckle which is designed to effectually secure the cross line to the main line in a peculiar manner, and which may be quickly and conveniently operated to adjust the cross line upon the main line or detach the former entirely from the latter, as may be desired in using the long line in connection with a single harness or when cleaning the straps or the like.

With this and other objects in view that will more fully appear as the description proceeds, the invention consists in certain constructions and arrangements of the parts that I shall hereinafter fully describe, and then point out the novel features thereof, in the appended claims.

For a full understanding of the invention and the merits thereof, and to acquire a knowledge of the details of construction, reference is to be had to the following description and accompanying drawing, in which:

Figure 1 is a perspective view of my improved cross line buckle, showing it applied; Fig. 2 is a longitudinal section thereof; Fig. 3 is a section on the line 3—3 of Fig. 1; and, Fig. 4 is a perspective view, showing the parts of the buckle in juxtaposition.

Corresponding and like parts are referred to in the following description and indicated in all the views of the drawing by the same reference characters.

My improved cross line buckle comprises an inner plate 1 and an outer plate 1^a which extend across the inner and outer sides of the long line A, and are arranged for an interlocking engagement to effectually secure the cross line B to the long line. The outer plate 1^a is formed intermediate of its ends with a relatively stationary inwardly disposed tongue 2 that is designed to penetrate the long line A to hold the plate in adjusted position thereon. The outer plate is also formed at its lateral edges with perpendicularly and inwardly disposed flanges 3 that extend across the edges of the long line and are formed near their ends with laterally disposed rearwardly facing hooks 4. The inner plate 1 is formed at its side edges

with laterally disposed forwardly opening sockets 5 that are arranged for engagement with the respective rearwardly facing hooks 4, the cross line B passing through a transverse slot 6 in the forward end of the inner plate, or being otherwise suitably secured thereto, so that tension exerted upon the cross line will serve to retain the sockets in engagement with the hooks. The inner plate 1 is formed with a longitudinal opening 7 through which the extremity of the tongue 2 of the outer plate protrudes, and a spring keeper 8 is secured at one end to the inner plate beyond the forward end of the opening 7 and extends rearwardly over the latter, said keeper being formed intermediate of its ends with an aperture 9 arranged to snap into engagement with the extremity of the tongue 2 to prevent the same from becoming accidentally displaced from the long line, and also to hold the inner plate against any accidental rearward movement relative to the outer plate, which would obviously result in the disengagement of said plates.

When it is desired to detach the cross line from the long line, the keeper 8 is sprung out of engagement with the tongue 2, and the inner plate 1 is moved rearwardly relative to the outer plate 1^a so as to disengage the sockets 5 from the outstanding hooks 4. The outer plate 1^a can then be removed from the long line, and the cross line and the buckle are thus entirely detached therefrom. When returning the buckle to position, the outer plate is placed in the desired adjusted position upon the long line, and the above operation is reversed to quickly and conveniently attach the cross line thereto.

From the above description, in connection with the accompanying drawing, it will be apparent that I have provided a simple, durable and efficient construction of cross line buckle that is arranged to effectually secure the cross line to the main line, and permit its convenient and quick detachment therefrom, and which consists of comparatively few parts that may be easily and cheaply manufactured and readily assembled.

Having thus described the invention, what I claim is:

1. A cross line buckle, comprising a plate designed to extend across one side of the long line and arranged to be held in an adjusted position thereon, said plate being formed at its side edges with flanges arranged to extend across the edges of the long

line and carrying a plurality of outstanding rearwardly facing hooks, and a second plate arranged for connection to the cross line and designed to extend across the opposite side
5 of the long line and formed with a plurality of longitudinally disposed forwardly opening sockets adapted to be engaged by the respective rearwardly facing hooks, as and for the purpose specified.

- 10 2. A cross line buckle comprising a plate arranged to extend across one side of the long line and formed with a relatively stationary tongue designed to extend through the long line to hold the plate in adjusted
15 position thereon, a second plate designed to extend across the opposite side of the long

line and arranged for an interlocking engagement with the first plate, said second plate being formed with a longitudinal opening through which the extremity of the
20 tongue protrudes, and a spring keeper secured at one end to the second plate and formed with an aperture arranged to snap into engagement with the protruding extremity of the tongue, as and for the purpose
25 set forth.

In testimony whereof I affix my signature in presence of two witnesses.

EARL M. DRY. [L. S.]

Witnesses:

S. H. FARRELL,

B. T. CUNNINGHAM.