

(No Model.)

C. S. KERSHAW.
SEPARABLE LINK.

No. 487,841.

Patented Dec. 13, 1892.

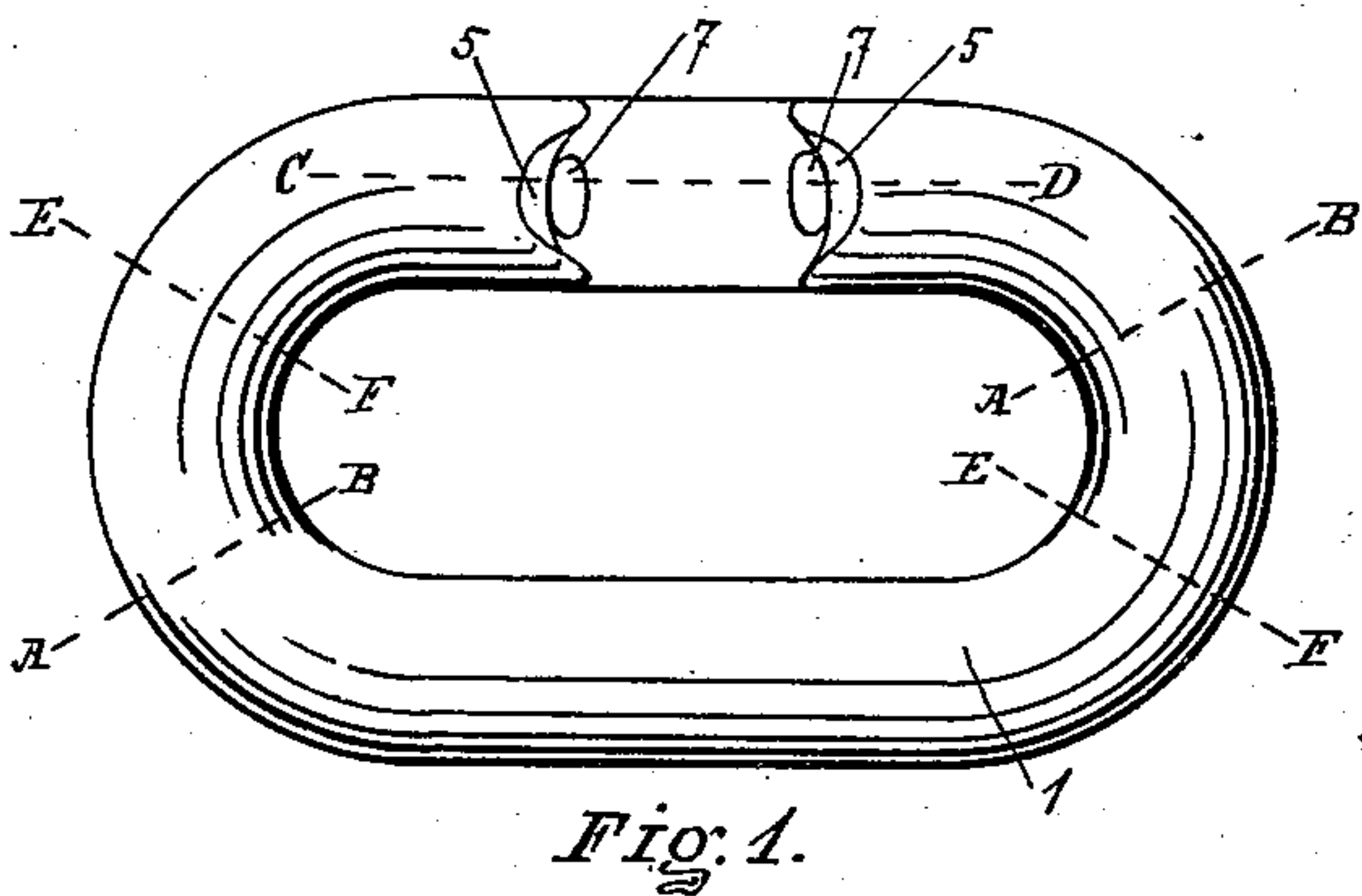


Fig. 1.



Fig. 2.

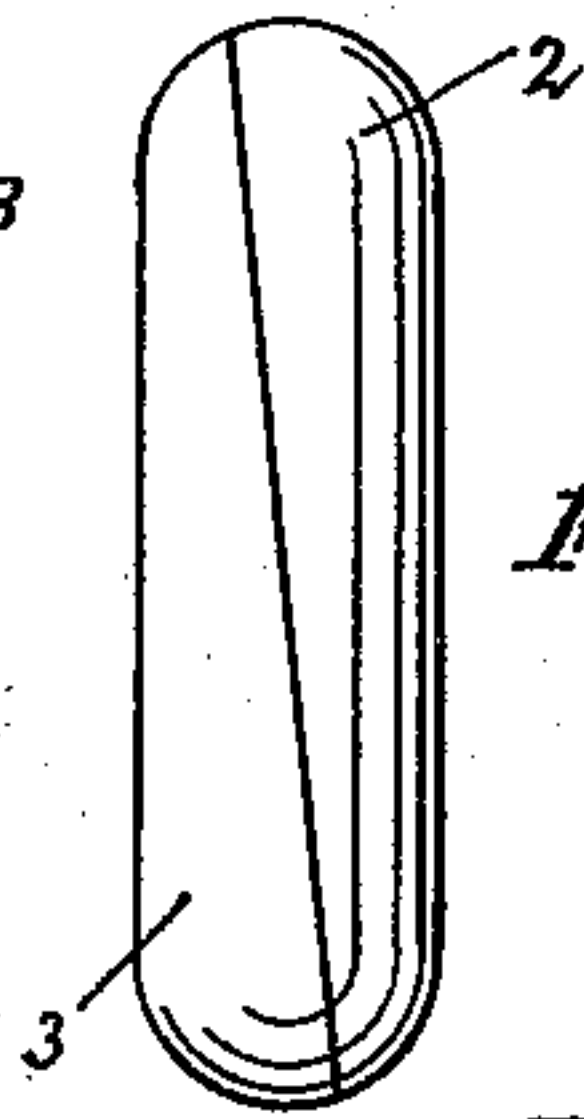


Fig. 3.

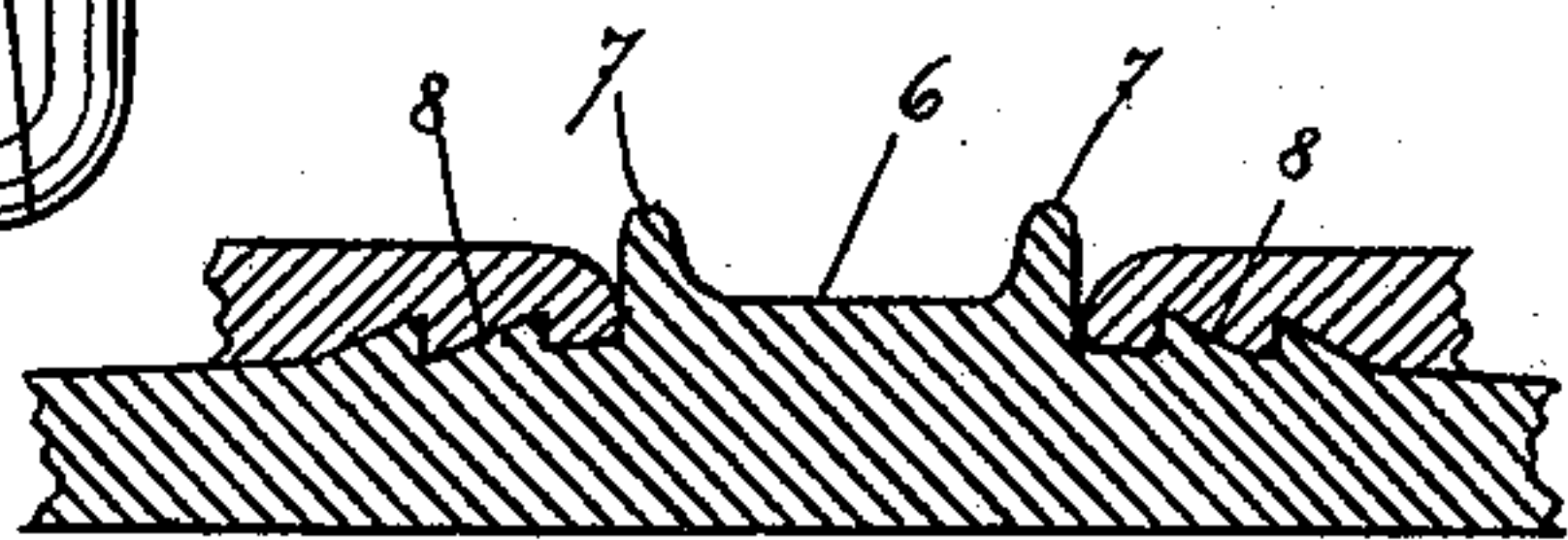


Fig. 10.

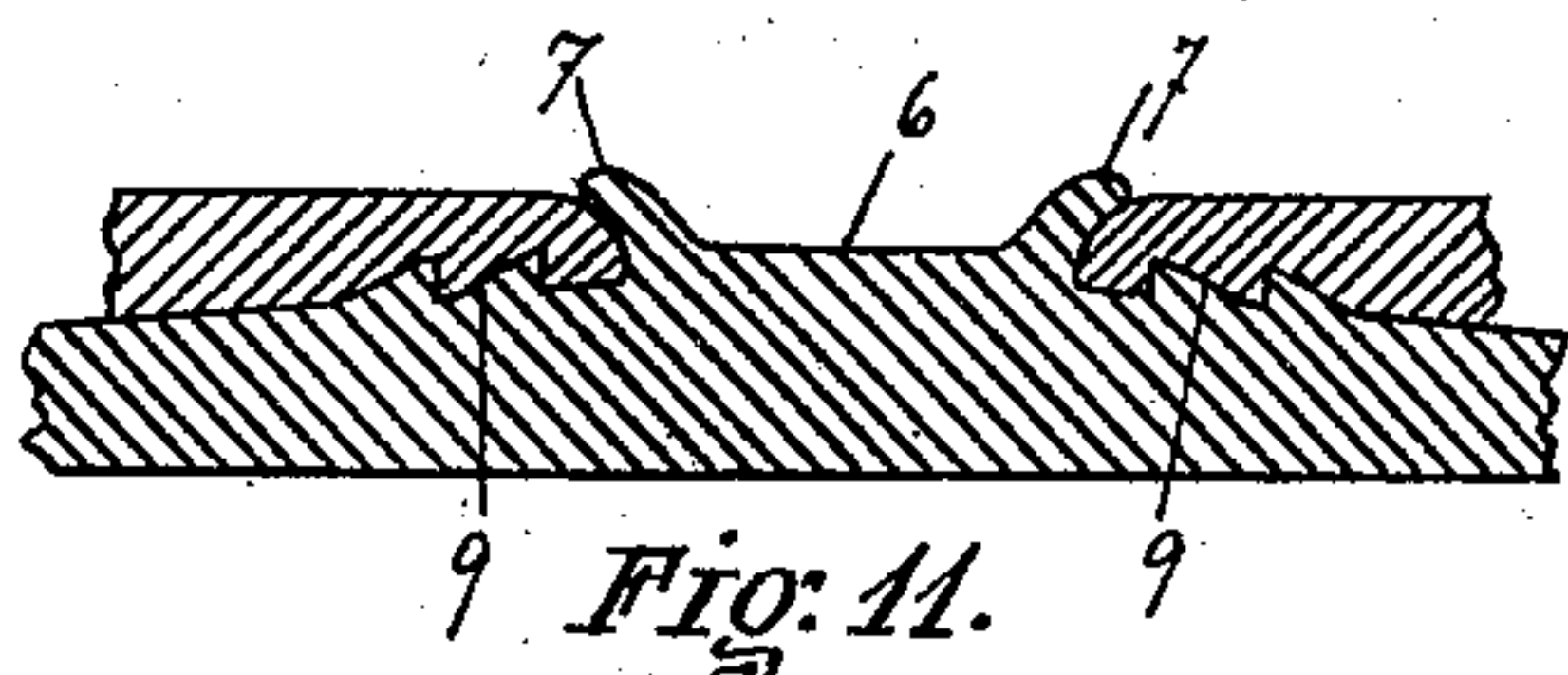


Fig. 11.

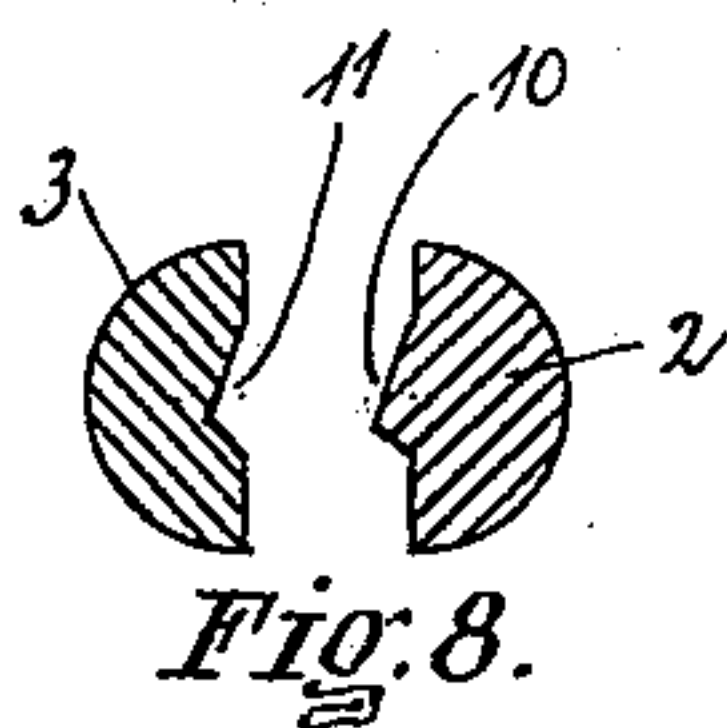


Fig. 8.

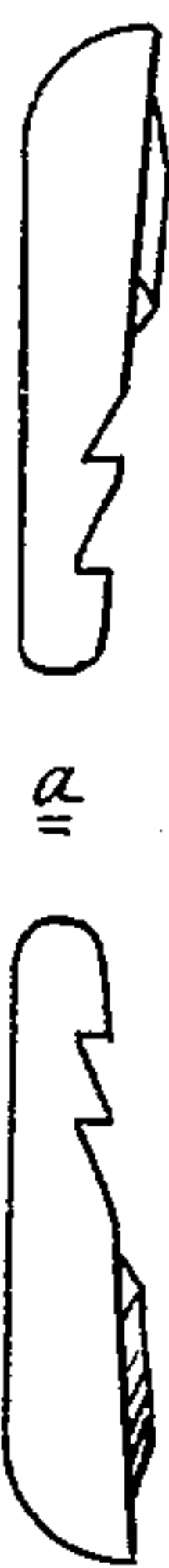


Fig. 6.

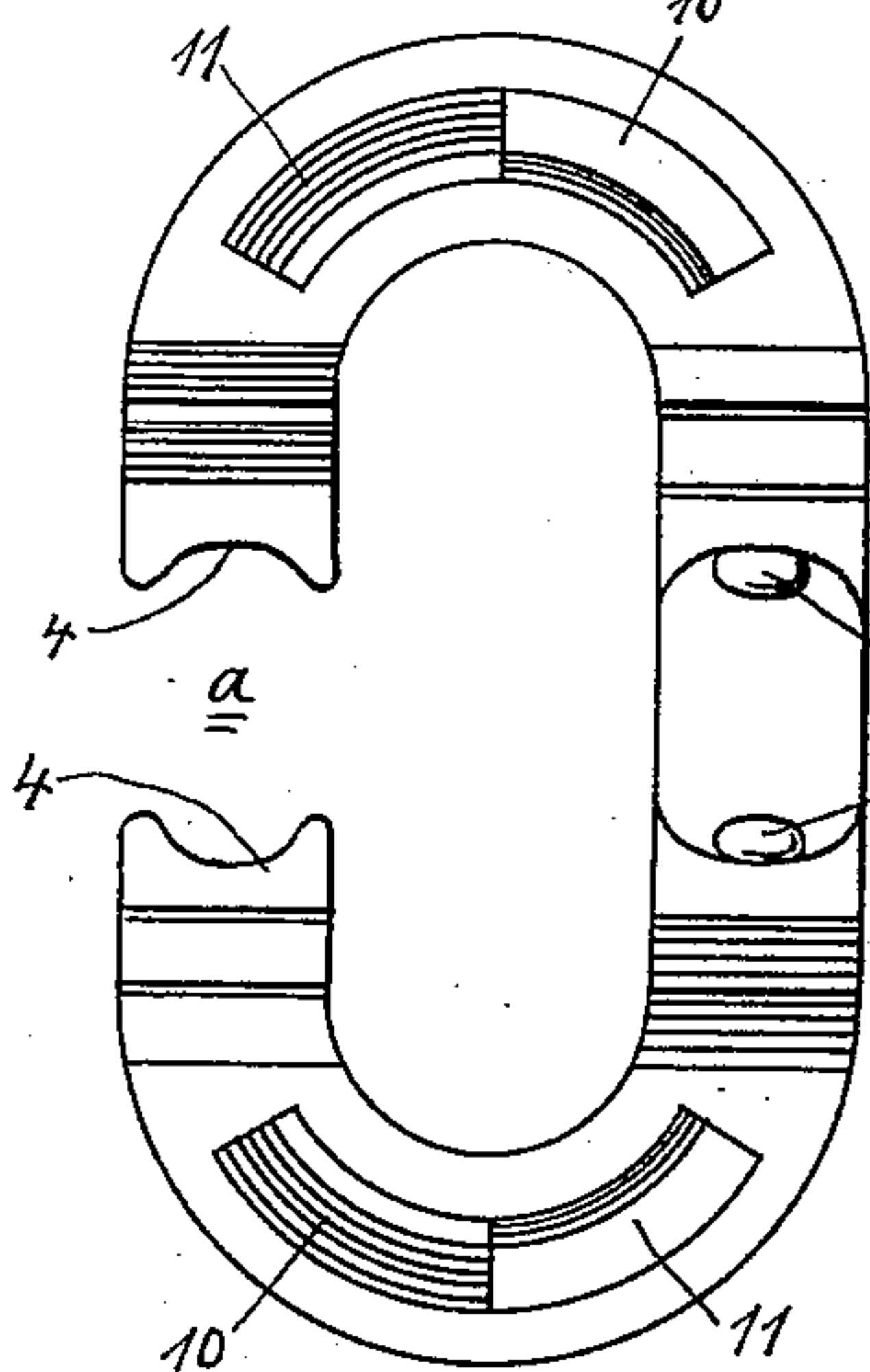


Fig. 4.

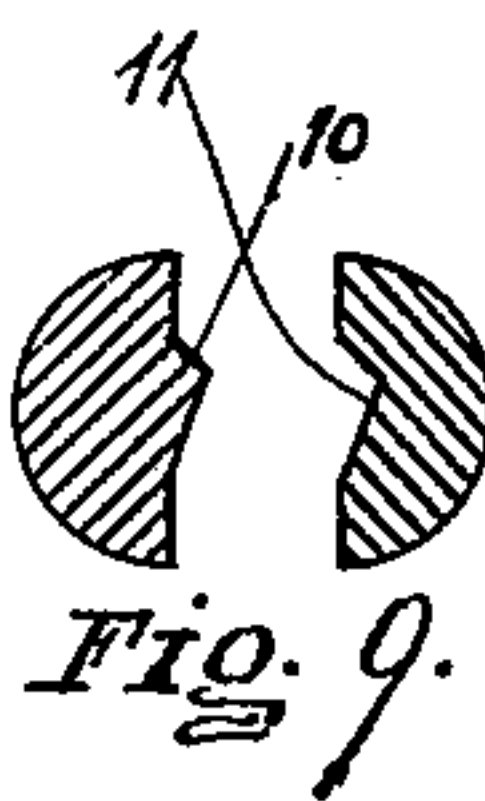


Fig. 9.

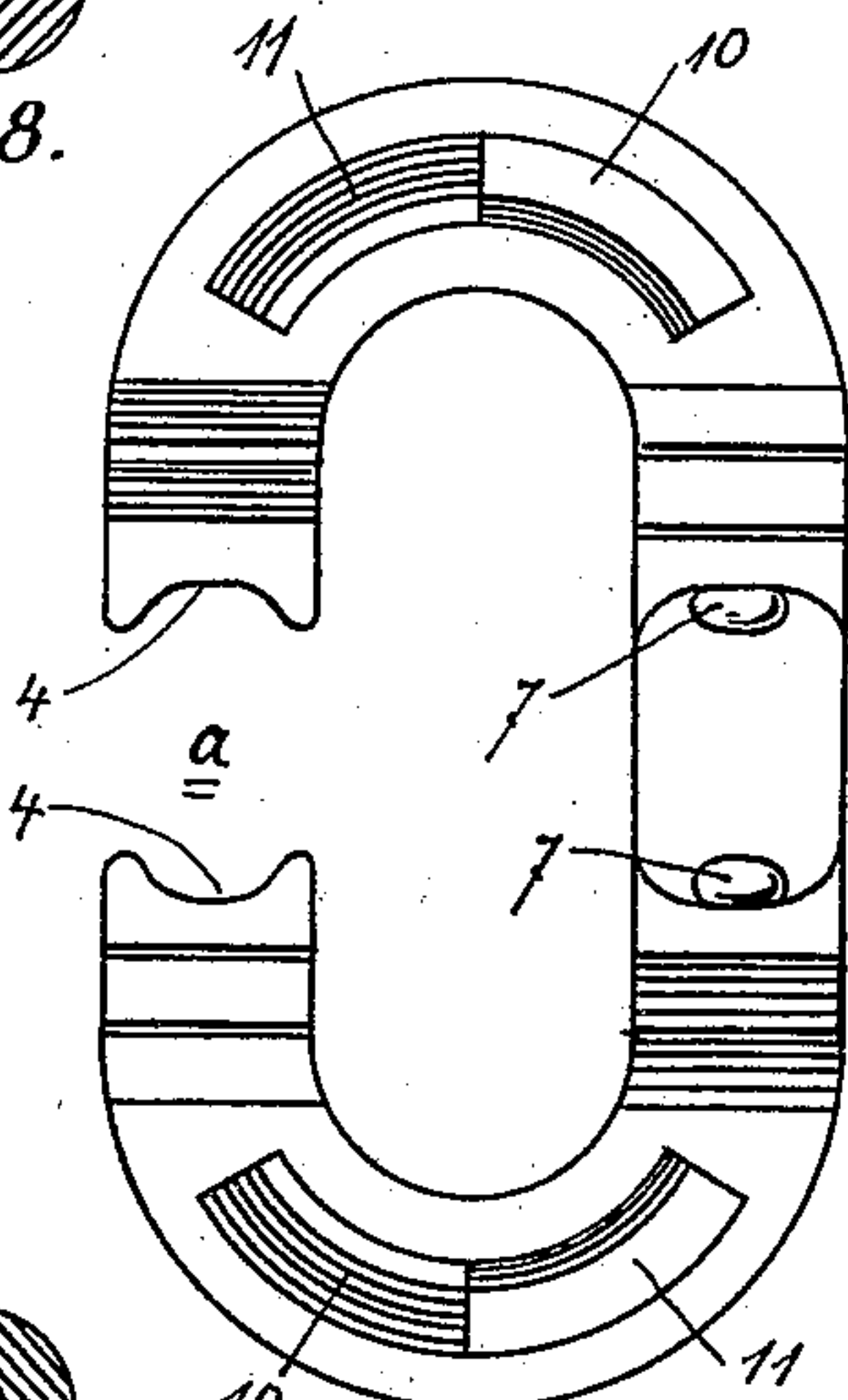


Fig. 5.

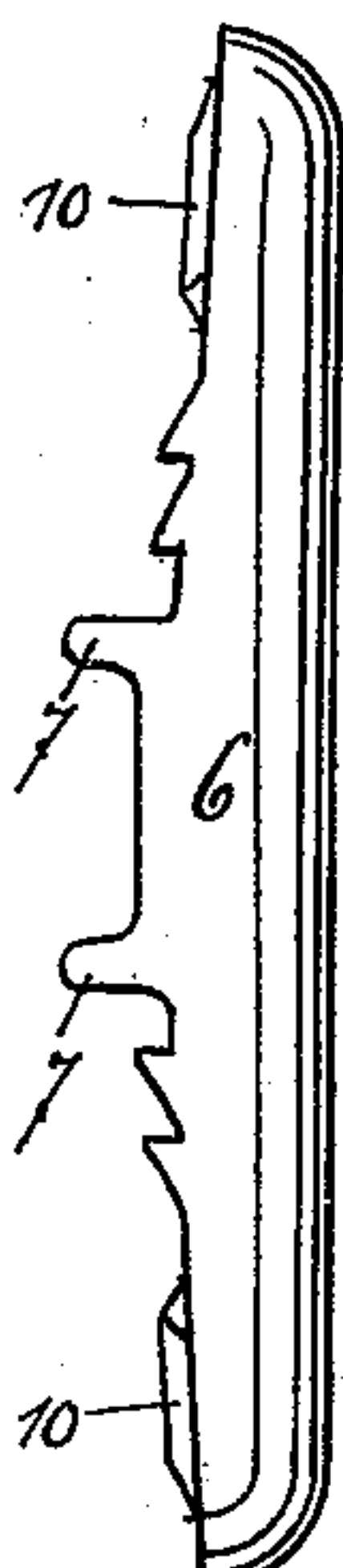


Fig. 7.

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SEPARABLE LINK.

SPECIFICATION forming part of Letters Patent No. 487,841, dated December 13, 1892.

Application filed May 16, 1892. Serial No. 433,091. (No model.)

To all whom it may concern:

Be it known that I, CHARLES S. KERSHAW, of Rome, in the county of Oneida and State of New York, have invented certain new and useful Improvements in Separable Links; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form part of this specification.

My invention relates to an improvement in separable links adapted to be used in forming chains or cables and especially adapted for joining chains or cables or effecting couplings in ropes or other similar connections.

In the drawings which accompany and form a part of this specification, and in which similar letters and figures of reference refer to corresponding parts in the several figures, Figure 1 shows a plan view of the link. Fig. 2 shows an edge view. Fig. 3 shows an end view. Figs. 4 and 5 show plan views from the inner side or engaging face of the two parts of the link, the two being identical in form. Fig. 6 shows an edge view of one part of the link, being the left-hand edge, as shown in Figs. 4 and 5. Fig. 7 shows an edge view, showing the opposite edge from that shown in Fig. 6, being the right-hand edge, as shown in Figs. 4 and 5. Fig. 8 shows a section through the link, taken on either of lines A B of Fig. 1, the parts being slightly separated to better illustrate the construction. Fig. 9 shows a section taken on either of lines E F of Fig. 1, the parts being separated, as in the previous figure. Fig. 10 shows a section taken on line C D of Fig. 1 in the position which the parts assume when placed together. Fig. 11 shows a section taken on the same line with malleable projections for securing the parts together turned down in securing them together.

Referring more particularly to the reference-numerals marked on the drawings in a more particular description of the device, 1 indicates the link, which consists of the two separable sections 2 and 3. These sections are exact duplicates. Each section is provided with an open side, as shown at *a* in

Figs. 4 and 5, and the ends of the links adjacent to the opening are provided with recesses or hollows, as shown at 4. The end is also beveled from the outside inward at the U-shaped point 4, as shown at 5 in Fig. 1. The opposite or body portion of the section opposite to the open side *a* is made full, as shown at 6, to substantially fill the open space *a*, and is provided with a pair of malleable projections 7 7, adapted to engage in the U-shaped ends 4 and be bent into the inclined recess 5. Each section is also provided at each side of the full portion 6 with a number of ratchet or saw-shaped teeth, as shown at 8 8, having their perpendicular faces on the side toward the projection 7.

In the ends of the link adjacent to the open side *a* are provided notches or recesses 9 9, corresponding in size, shape, and number to the teeth 8 and adapted to receive them.

Each section of the link is provided on its inner face at the end of the link with a V-shaped holding projection 10, which conforms in general shape to the outline of the end of the link and extends up to the middle of the link on the end. On the opposite side of the link is provided a dowel groove or depression 11, adapted to receive a dowel projection, as 10, the grooves corresponding in shape and size to the said projection.

In use the two sections of links 2 and 3 are placed together, as shown, and after being so placed together the projections 7 7 may be bent into the inclined groove 5. This being done at each side of the link joins the two sections firmly and securely together and makes a link that is substantially the same as a one-piece link. By bending the projection 7 to a perpendicular position the parts of the link can be separated. The link can be used as one of a series of similarly shaped and sized links without clinching the projection 7 down, as the size of the opening through the complete link will be about such as to hold the two parts together; but I prefer to use the link with the projection clinching down, as in this way it is entirely safe and not liable to become separated.

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

1. A link formed of two duplicate separable parts, each part having an opening at the side

of the link and U-shaped or hollow ends 4 at each side of the opening, and the projections 7 at the opposite side of the link, adapted to engage in the hollow ends of the separate parts, substantially as set forth.

2. A separable link composed of duplicate parts, each part having an open side and U-shaped beveled ends at side of the opening in the side, and the malleable projections on the opposite side of the link from the opening and projecting at right angles from the plane of the link and adapted to be bent into the hollowed beveled ends, substantially as set forth.

3. The combination, in the separable link, of the two parts thereof, each part having an open side, and the ends of the part adjacent to the opening being thinner than the body portion and opposite side of the part and terminating in the hollowed and beveled end, malleable projections on the opposite side of the part from the open side, and serrations on the part adjacent to the projections and adapted to engage in corresponding depressions in the ends of the part adjacent to the open side, substantially as set forth.

4. A link composed of duplicate separable parts, each part having an open side, locking projections on the parts on the opposite side from the open side, adapted to engage the ends

of the parts adjacent to the open side, and dowel projections on the engaging faces of the two parts at the ends of the part, and a corresponding dowel depression in the ends of the parts on the opposite sides of the longitudinal central line from the dowel projection for receiving the dowel projection, substantially as set forth.

5. A separable link consisting of two duplicate parts, each part having an open side and malleable locking projections on the side opposite to the open side, projecting at right angles from the plane of the link and adapted to engage the ends of the part adjacent to the open side serrations on the engaging faces of the part adjacent to the malleable projections, and corresponding depressions in the ends adapted to receive the serration and dowel-projection rib on the engaging face of the parts at the end of the part, and a corresponding dowel depression on the opposite side of the central longitudinal line from the projection, adapted to receive the projection, substantially as set forth.

In witness whereof I have affixed my signature in presence of two witnesses.

CHARLES S. KERSHAW.

Witnesses:

F. W. CLARK,
S. M. STEVENS.