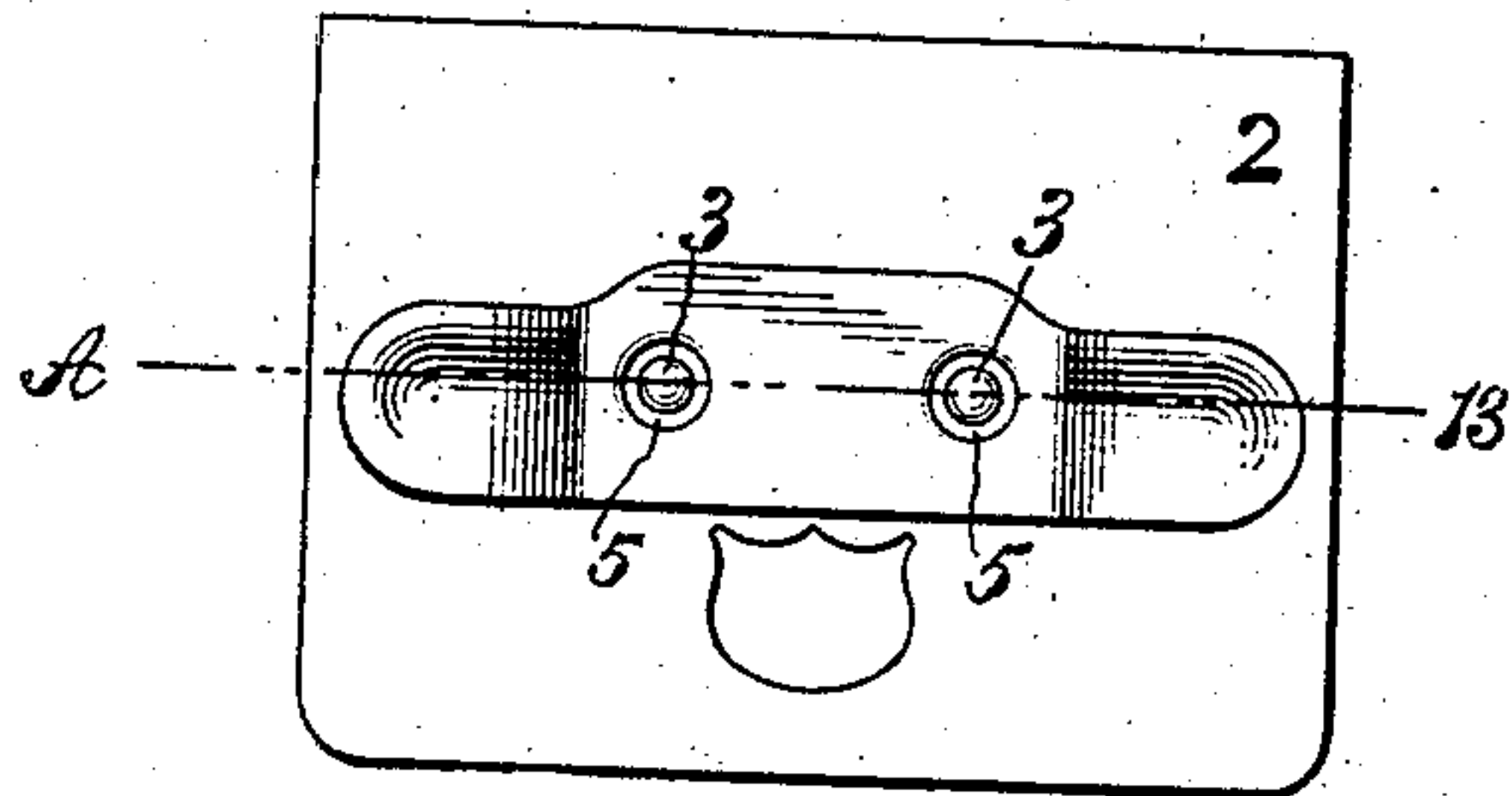


No. 894,210.

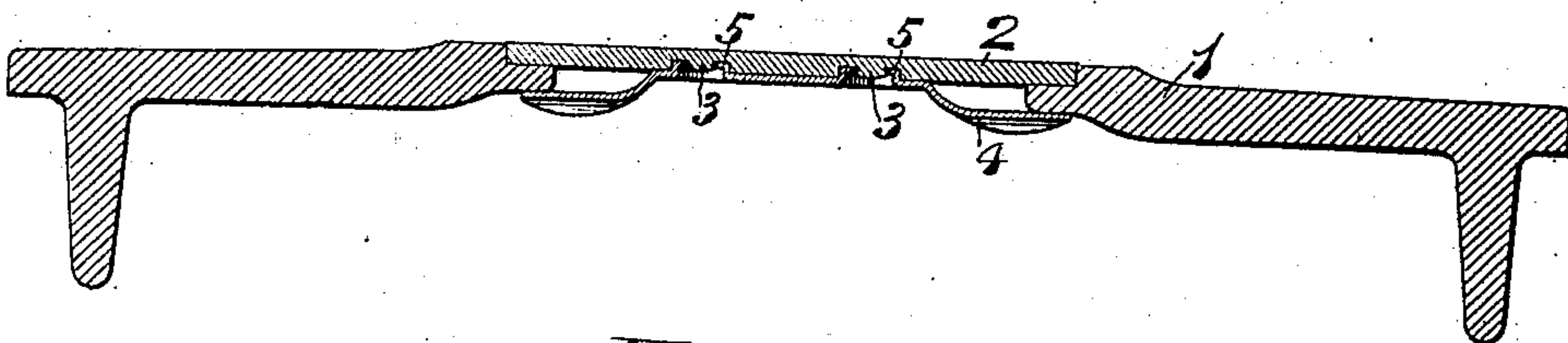
PATENTED JULY 28, 1908.

J. D. KARLE.  
BLIND RIVETING.  
APPLICATION FILED DEC. 17, 1906.

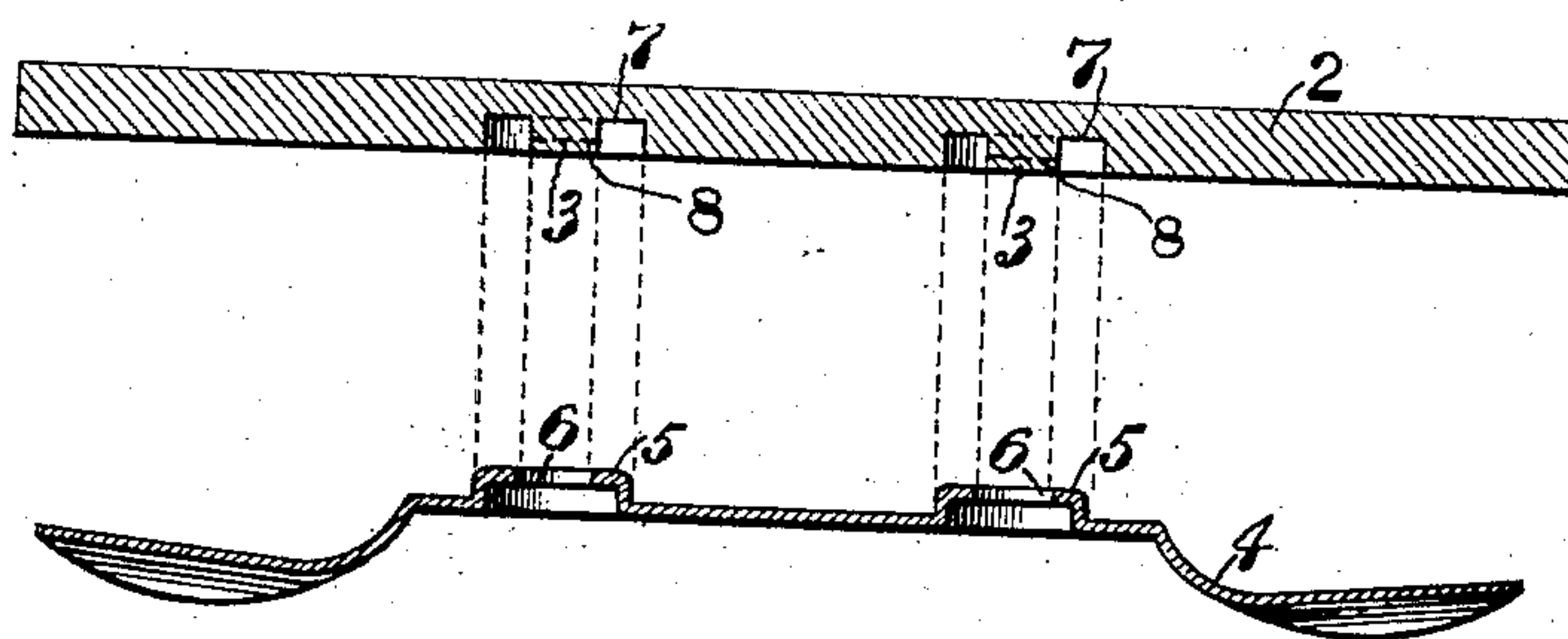
*Fig. 1.*



*Fig. 2.*



*Fig. 3.*



WITNESSES:

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# UNITED STATES PATENT OFFICE.

JOHN D. KARLE, OF BRIDGEPORT, CONNECTICUT, ASSIGNOR, BY MESNE ASSIGNMENTS, TO  
THE SINGER MANUFACTURING COMPANY, A CORPORATION OF NEW JERSEY.

## BLIND RIVETING.

No. 894,210.

Specification of Letters Patent.

Patented July 28, 1908.

Application filed December 17, 1906. Serial No. 348,332.

*To all whom it may concern:*

Be it known that I, JOHN D. KARLE, a citizen of the United States, and a resident of Bridgeport, in the county of Fairfield and State of Connecticut, have invented certain new and useful Improvements in Blind Riveting, of which the following is a specification.

This invention relates to improvements in blind riveting and has for its object to provide a main portion or body of metal with a rivet formed integral with and extending from within the said body of metal toward one side thereof, said rivet being formed within and of less length than the thickness of said metal.

Referring to the several figures in which like parts are similarly designated, Figure 1 is an underside view of the front slide-plate of a sewing machine provided with a spring for holding said plate against accidental movement, said spring being secured by the employment of my blind rivet. Fig. 2 is a view of the front end portion of the cloth-plate of a sewing machine, together with the slide-plate which is shown in section on the line A—B, Fig. 1. Fig. 3 is an enlarged sectional view of the slide-plate and slide-plate spring, the said parts being vertically arranged and slightly separated to better illustrate the manner of securing said spring to said slide-plate.

1 is the cloth-plate of a sewing machine, 2 is the slide-plate, and 3, 3 are rivets the free ends of which lie in the same plane as the plane of the metal and may be formed by cutting away the metal, as in the present instance, or by cutting casting or forging such rivets with their free ends lying inside the plane of the metal as indicated by 8—8, Fig. 3. 4 is a slide-plate spring of usual construction, except that it is provided with circularly-formed offset portions 5, 5 which are provided with holes 6, 6 into which the rivets 3, 3 enter, the offset portions 5, 5 fitting into circular portions 7, 7 formed in the plate 2. After the parts 2 and 4 have been

thus positioned, they are secured by riveting the free ends of the rivets over and upon that portion of the spring immediately surrounding the rivets.

The advantage derived from my present invention consists in forming the rivet integral with the main portion or body of the metal so that its free end lies in the same plane or within the plane of the rivet side of the metal, and in such manner that the surface of the metal opposite the rivet side is left undisturbed, thus presenting an unbroken surface capable of being smoothly polished or plated, as in the construction of the sewing machine slide-plate herein illustrated and described.

What I claim is:—

1. A main portion or body of metal having formed integral with it a rivet, the portion comprising said rivet being surrounded by a circular groove, thus forming a seat and attaching means within the thickness of said metal, in combination with a second part or piece having an offset portion adapted to enter said groove, the bottom wall of said groove acting as a seat for said offset portion, which latter is provided with an opening through which the rivet extends for heading over and upon the metal immediately surrounding said rivet.

2. A body of metal provided with a depression, an integral projection rising from the bottom of said depression not higher than the surface thereof, in combination with a second body of metal having a projection seated in the depression, and a perforation through said projection through which the integral projection extends, said second body of metal being held by the upset end of the integral projection.

Signed at Bridgeport, in the county of Fairfield, and State of Connecticut, this 13th day of December, A. D. 1906.

JOHN D. KARLE.

Witnesses:

A. K. WILLIAMS, Jr.,  
A. DONIHEE.