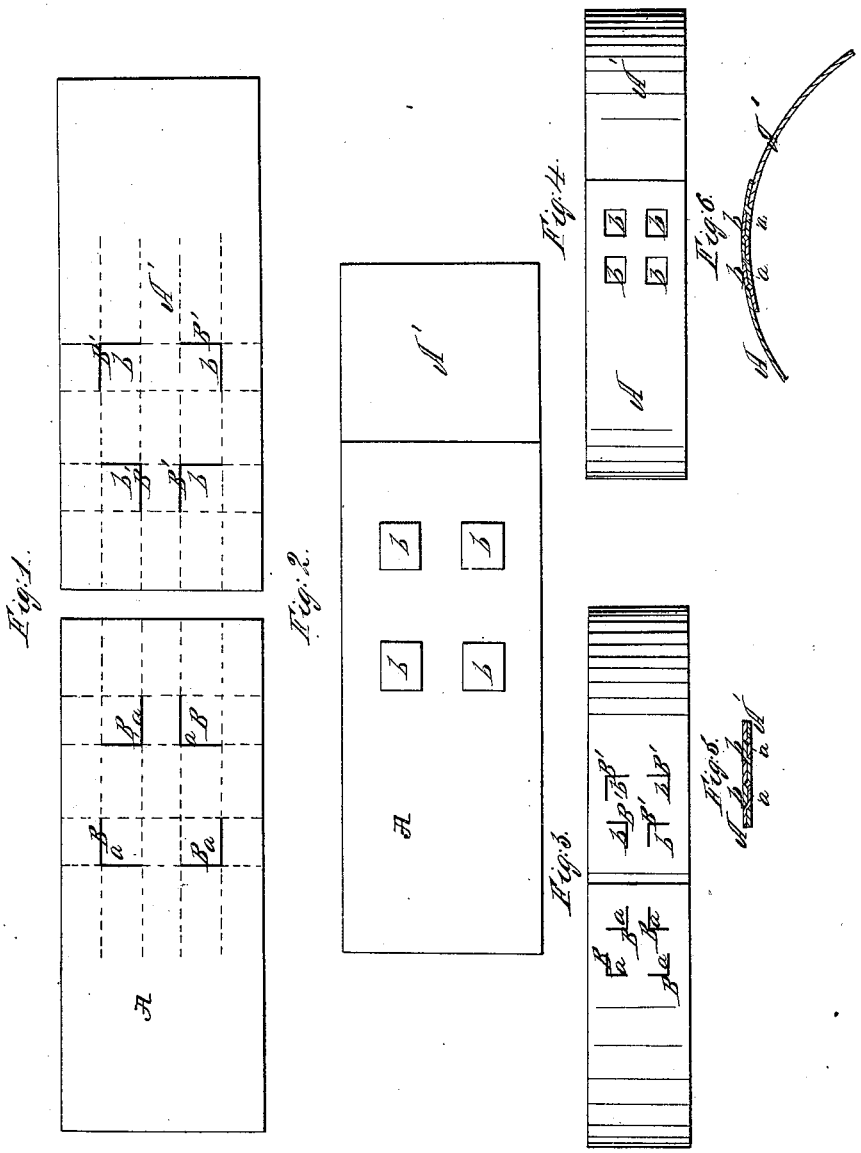
S. Pratt,

Uniting Metallic Plates.

No. 6,647. Patented Aug. 14, 1849.



UNITED STATES PATENT OFFICE.

SAML. PRATT, OF COHASSET, MASSACHUSETTS.

METHOD OF UNITING METALLIC PLATES TO EACH OTHER.

Specification forming part of Letters Patent No. **6,647**, dated August 14, 1849.

To all whom it may concern:

Be it known that I, SAMUEL PRATT, of Cohasset, in the county of Norfolk and State of Massachusetts, have invented a new and useful improvement in the mode of joining or securing together metallic plates or bands for making hoops and for other purposes, which is described as follows, reference being had to the annexed drawings of the same, making part of this specification.

Figure 1 is a top or bird's-eye view of two metallic plates perforated with angular incisions for securing them together. Fig. 2 is a top view of the same connected. Fig. 3 represents a metallic hoop-plate having right-angled incisions near its extremities. Fig. 4 represents the same plate with its ends secured together in the form of a hoop. Fig. 5 is a section of the same at the line *x x* of Fig. 4. Fig. 6 is a longitudinal section of the same.

Similar letters in the figures refer to corresponding parts.

The nature of this invention and improvement consists in making two or more incisions in the hoop-plate near the ends of the same, or in the pieces of metal to be joined, of the form of a right angle, by means of a punch, or in any convenient manner, so as to cause the body of metal between the angular incisions in one plate or piece or one end of the hoop-plate to be raised above the surface of the same, and the metal between the angular incisions of the other plate or opposite end of the hoop-plate to be depressed below its surface in such a manner as to allow of the projecting portions near one end of the hoop-plate or piece of metal to be passed through the incisions near the opposite end of the hoop-plate or in the other metal plate to be joined and locked into the same, and the projecting portions to be pressed together.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

A A′ are two oblong metallic plates, represented as detached in Fig. 1 and connected in Fig. 2.

B B′ are the right-angled incisions, formed by a punch or chisel, those marked B in one plate, A, being punched from its upper surface, so as to cause the body of metal *a* between the right-angled lines of each incision to be forced beyond the lower surface of said plate, and those B′ on the other plate, A′, being punched from the lower surface, to cause the metal *b* between the lines of the incisions to project above the upper surface of the same in a corresponding manner to the projecting corners of the plate A. The lines of these incisions are arrived at by drawing longitudinal and transverse lines on the plates corresponding with the size and number of the incisions to be made, as represented in Fig. 1, the longitudinal portions of the first two incisions, B′, of plate A′ being on the middle adjoining longitudinal lines, and those of the next succeeding pair on the outside, and the transverse portions at right angles and extending in opposite directions, and the longitudinal lines of the first two incisions, B, of the opposite plate, A, being on the outside lines, and the next succeeding pair on the inner lines, and the transverse portions running in opposite directions, as represented in Fig. 1. After the incisions are made in the plates in the manner above stated, the plates are brought together, one above the other, and the projecting portions of metal next the incisions on one plate locked into the corresponding projections on the opposite plate, and pressed or hammered together even with the surfaces of the plates, thus securing the two together without the aid of rivets or the removal or addition of any metal. Other forms of incision or opening may likewise be used to advantage, provided the piece of metal cut is not entirely removed, but bent so as to receive the corresponding projection of the other piece through the opening, the projecting pieces being again returned to their original positions by pressure or otherwise.

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

The mode of securing together the extremities of metallic hoop-bands to form hoops or metallic plates by making angled incisions in the same and locking the projecting portions of metal between the lines of said incisions into each other and pressing or hammering them together, so as to form smooth surfaces above and below, in the manner before described.

SAMUEL PRATT.

Witnesses:

S. P. TAYLOR,

WM. H. JENKS.