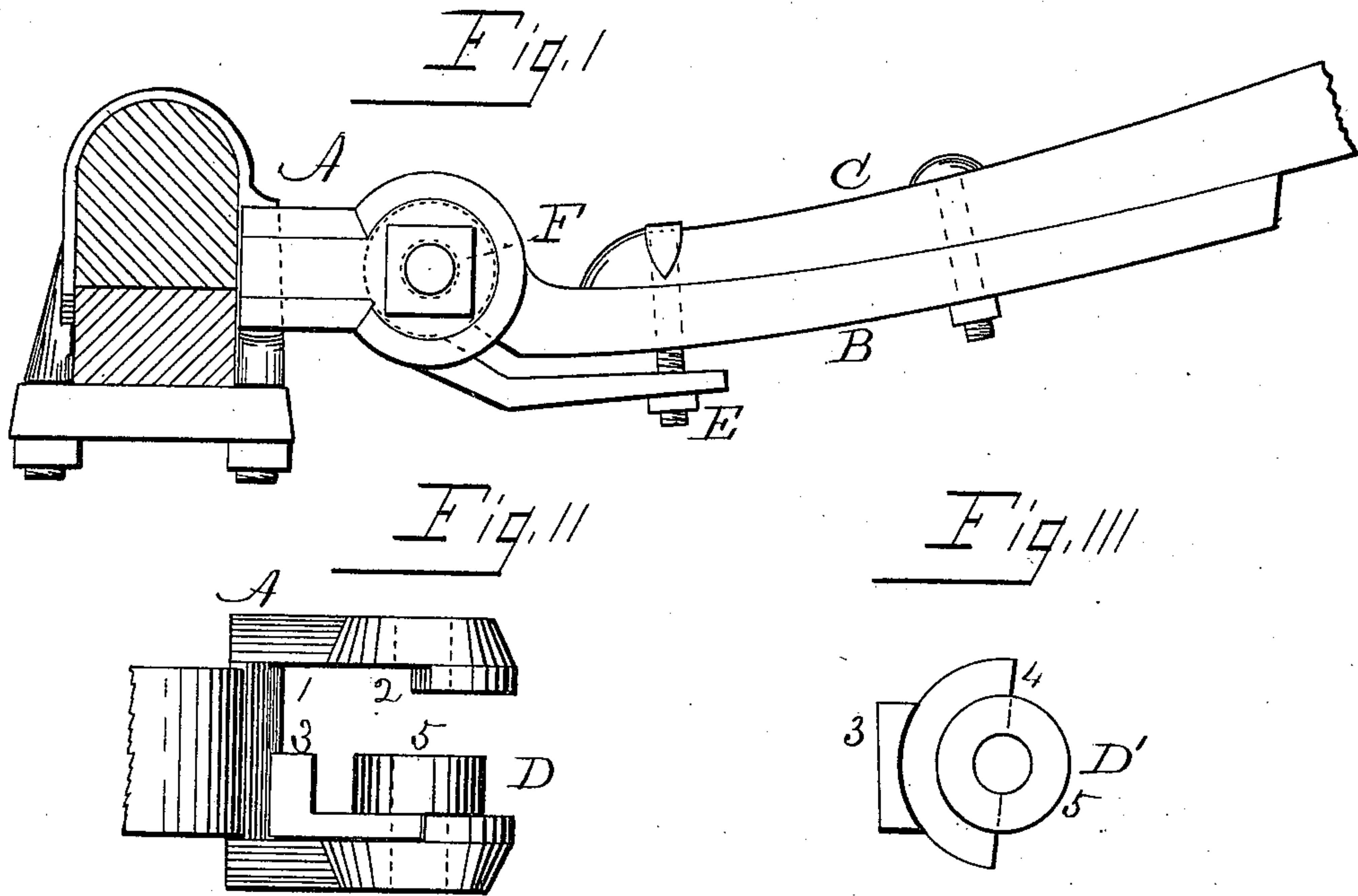


(No Model.)

J. O. ALTICK.
THILL COUPLING.

No. 350,611.

Patented Oct. 12, 1886.



Witnesses
Louis S. Reibold
Leopold Reibold

Inventor
James O. Altick
By his Attorney *B. Pickering*

UNITED STATES PATENT OFFICE.

JAMES O. ALTICK, OF DAYTON, OHIO, ASSIGNOR OF ONE-HALF TO DANIEL WEAVER, OF SAME PLACE.

THILL-COUPLING.

SPECIFICATION forming part of Letters Patent No. 350,611, dated October 12, 1886.

Application filed March 1, 1886. Serial No. 193,672. (No model.)

To all whom it may concern:

Be it known that I, JAMES O. ALTICK, a citizen of the United States, residing at Dayton, in the county of Montgomery and State of Ohio, have invented a certain new and useful Improvement in Thill-Couplings; 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 of reference marked thereon, which form a part of this specification.

My invention relates to improvements in thill-couplings; and it consists of bearing-blocks which rest against shoulders in the ears of the jack-clip in front, and in the rear rests against an incline on the front surface of said clip, and an adjustable thill-iron with an open end, which is tightened against the bearings by a screw which engages the free end thereof. The mechanism is illustrated in the accompanying drawings, in which—

Figure I is a side view of the improved thill-coupling as attached to a vehicle-axle. Fig. II is a top view of the clip with one of the bearing-blocks in position. Fig. III is a side view of the bearing-block.

Like letters designate like parts throughout the several views.

A is the clip, which is attached to the front axle of a vehicle, and supports the pivot to which the thill-iron is attached. This clip is identical with those in general use, with the exception that it has inclined shoulders 2 on the inner surfaces of the ears, and an inclined surface, 1, on the front of the band. Two bearing-blocks, D and D', rest within these surfaces, the former being shown in position at Fig. II.

At Fig. III is shown one of the bearing-blocks, D'. It has three distinct parts, but is cast as a single piece. The rear part, 3, extends from the ear to near the center, has an incline on the rear part, and in front a concavity. The part 4 constitutes the side and forms the shoulder, which is inclined and corresponds to a line crossing the center of the orifice for the bolt, and 5 is a circular boss, half of which is joined to the side plate. The bearing-blocks are placed in the eye of the thill-iron B, then dropped into position within the ears, and are secured by the bolt F. The draft is then wholly against the shoulders of the clip; the bolt serving the only purpose of preventing the bearing-blocks from jolting out of position. The ordinary thill-iron may be used in connection therewith. The thill-iron B has an open eye with a forward extension, which is engaged by the T-bolt. The use of this extension is to tighten the bearing when the same becomes loose from wear.

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

1. A clip for thill-couplings, having shoulders on the inside of the ears and an inclined face at the intersection of the ears with the band, the bearing-blocks with inclines adapted to said clip, and bosses for a pivot, in combination with a thill-iron, substantially as set forth.

2. The combination of the thill-coupling clip A, the bearing-blocks D D', and the adjustable thill-iron B, substantially as set forth.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

JAMES O. ALTICK.

Witnesses:

B. PICKERING,
SUMNER T. SMITH.