

E. WEIBLE.
Shaft-Couplings.

No. 155,481.

Patented Sept. 29, 1874.

Fig. 1.

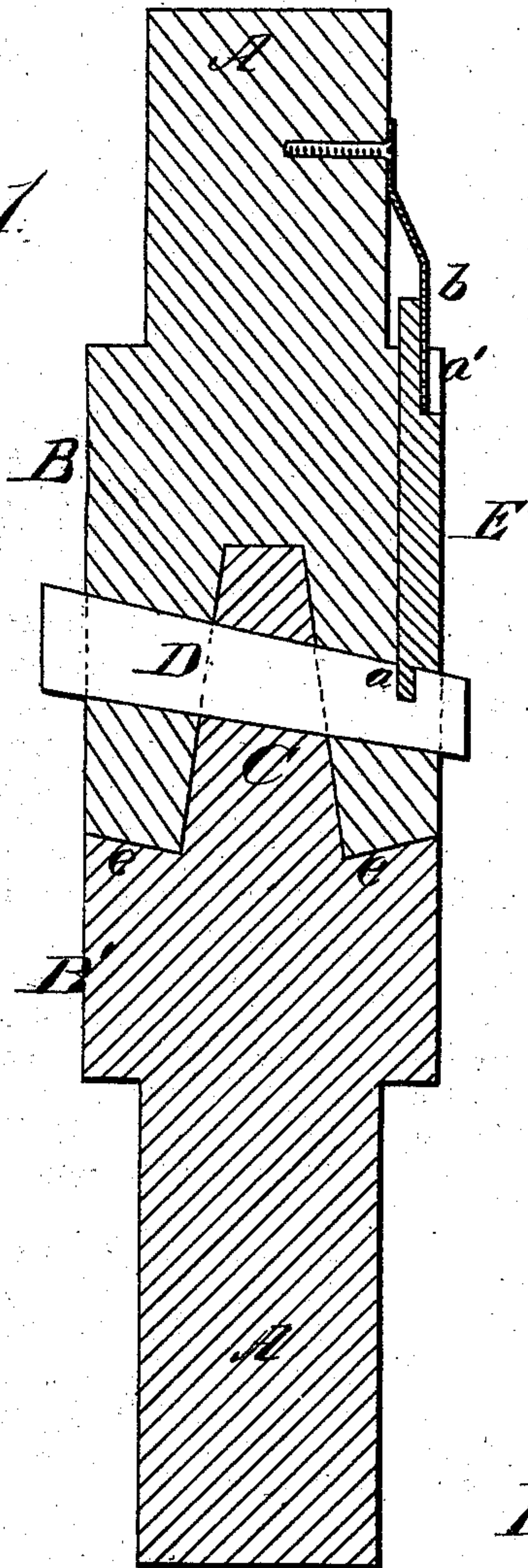


Fig. 2.

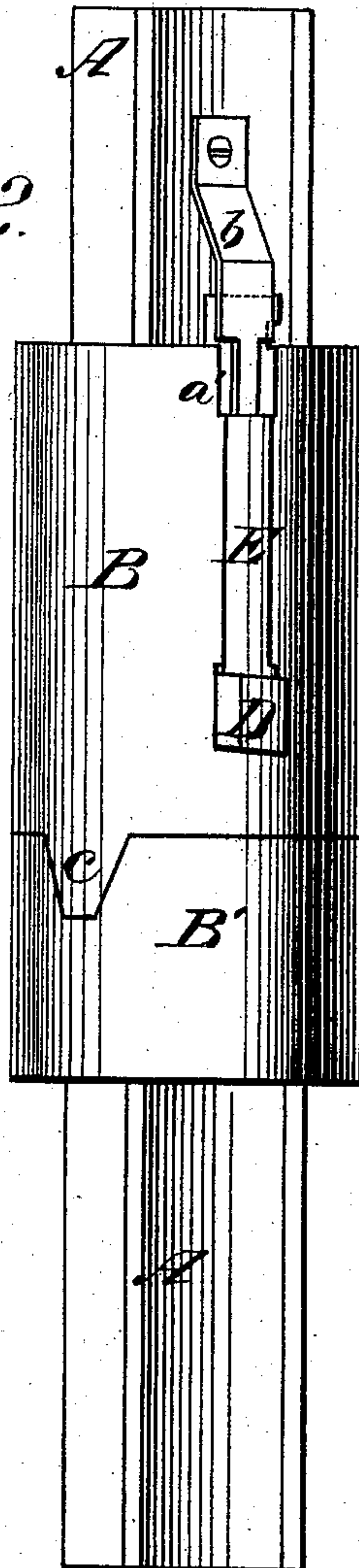
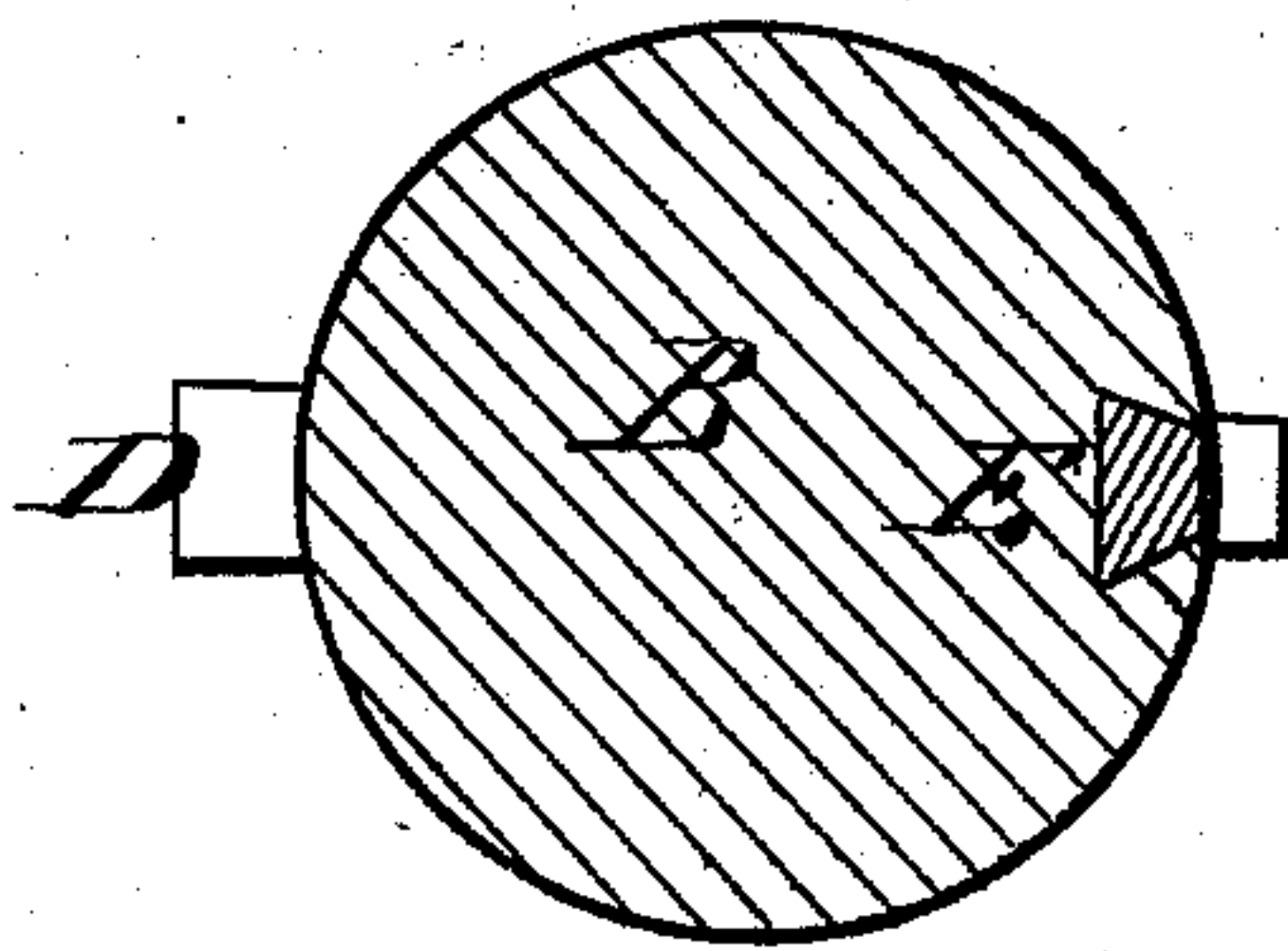


Fig. 3.



WITNESSES
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UNITED STATES PATENT OFFICE.

EMANUEL WEIBLE, OF TIDIOUTE, PENNSYLVANIA, ASSIGNOR OF ONE-HALF
HIS RIGHT TO J. A. WEIBLE, OF SAME PLACE.

IMPROVEMENT IN SHAFT-COUPPLINGS.

Specification forming part of Letters Patent No. **155,481**, dated September 29, 1874; application filed
August 22, 1874.

To all whom it may concern:

Be it known that I, EMANUEL WEIBLE, of Tidioute, in the county of Warren and State of Pennsylvania, have invented a new and valuable Improvement in Shaft-Couplings; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawing is a representation of a vertical sectional view of my shaft-coupling. Fig. 2 is a front view, and Fig. 3 is a detail view, of the same.

This invention has relation to means for coupling sections of shafting for oil-well boring-tools and other purposes; and it consists in a tapered tenon on one shaft-section fitted into a corresponding socket in the other section, in combination with tenons and notches and a wedge fastening and key, whereby a very secure coupling is made, as will be fully understood from the following description.

In the annexed drawings, A A designate shaft-sections, on the ends of which cylindrical enlargements B B' are formed. C designates a tapered tenon or circular wedge, which is formed centrally on the end of the enlargement B', and which is surrounded by a concave surface, *e*. The tenon C is fitted snugly into a recess or mortise of corresponding shape, which is made in the end of the enlargement B, and the concavity *e* receives a corresponding convex surface formed on this enlarge-

ment, as shown in Fig. 1. D designates a wedge, which is inserted obliquely through the enlargement B and tenon C, and when it is driven in its place it will firmly draw the sections together and make a rigid coupling. E designates a key, which is dovetailed into one side of the enlargement B, and constructed with a tooth, *a*, on one end, which enters a notch in the wedge D, and prevents this wedge from becoming loose. The key E is confined in its place by means of a spring, *b*, one end of which lies in a recess, *a'*, made in this key. The wedge D and tenon C are sustained against a twisting strain by means of tenons *c*, fitted into corresponding notches.

I am aware that it is not new in a shaft-coupling to have one of its sections provided with a slot across its end, and the other section provided with a tenon and held together by means of a bolt, as shown in Letters Patent, dated July 18, 1865, No. 48,793.

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

The enlargements B B', fitted together by means of tapered tenons C *c*, in combination with the wedge D, the key E, and spring *b*, substantially as described.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

EMANUEL WEIBLE.

Witnesses:

M. S. BOOTH,
HENRY BALLIET.