

(No Model.)

2 Sheets—Sheet 1.

A. FAUST.
SHAFT COUPLING.

No. 287,651.

Patented Oct. 30, 1883.

Fig. 1.

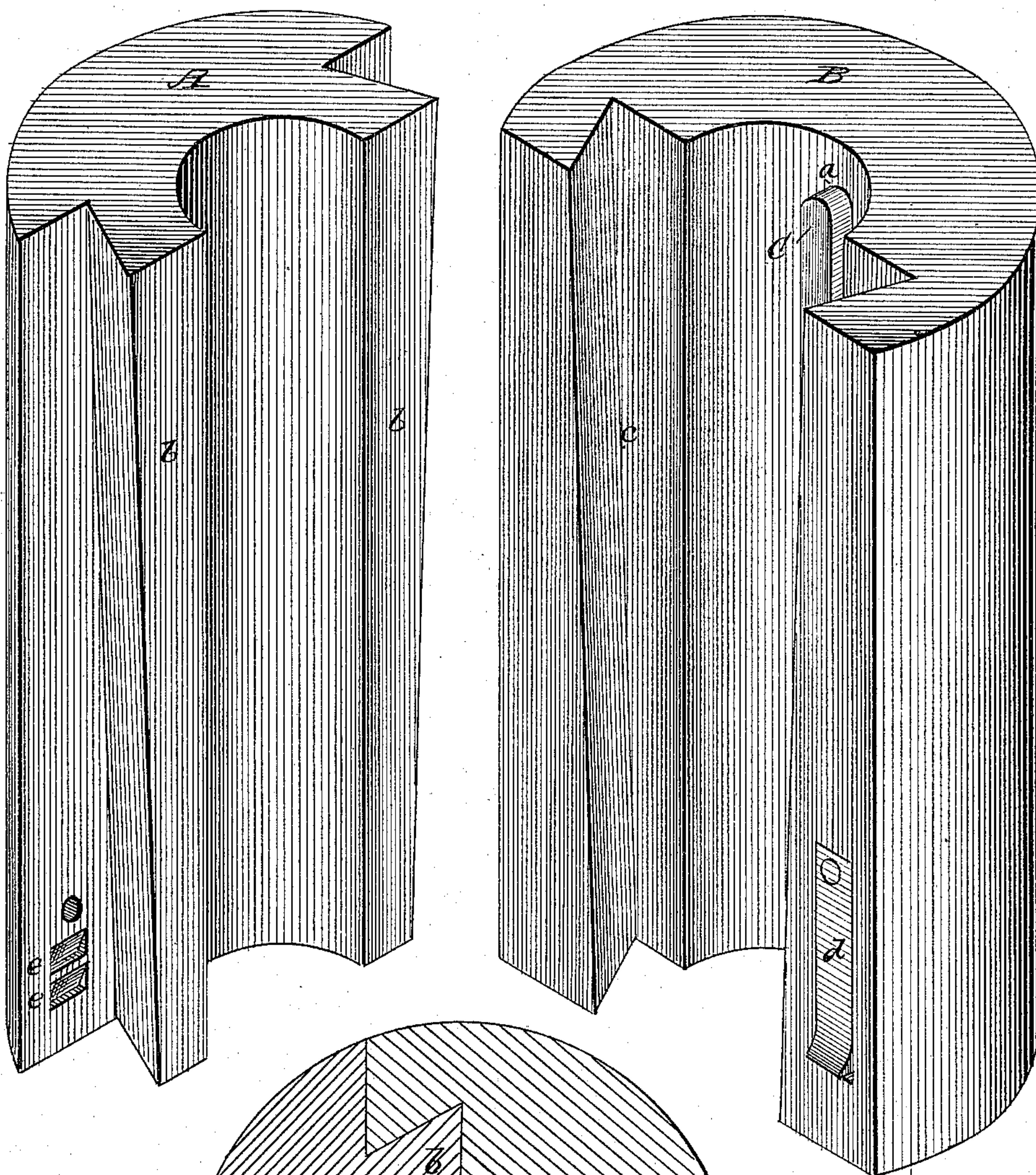
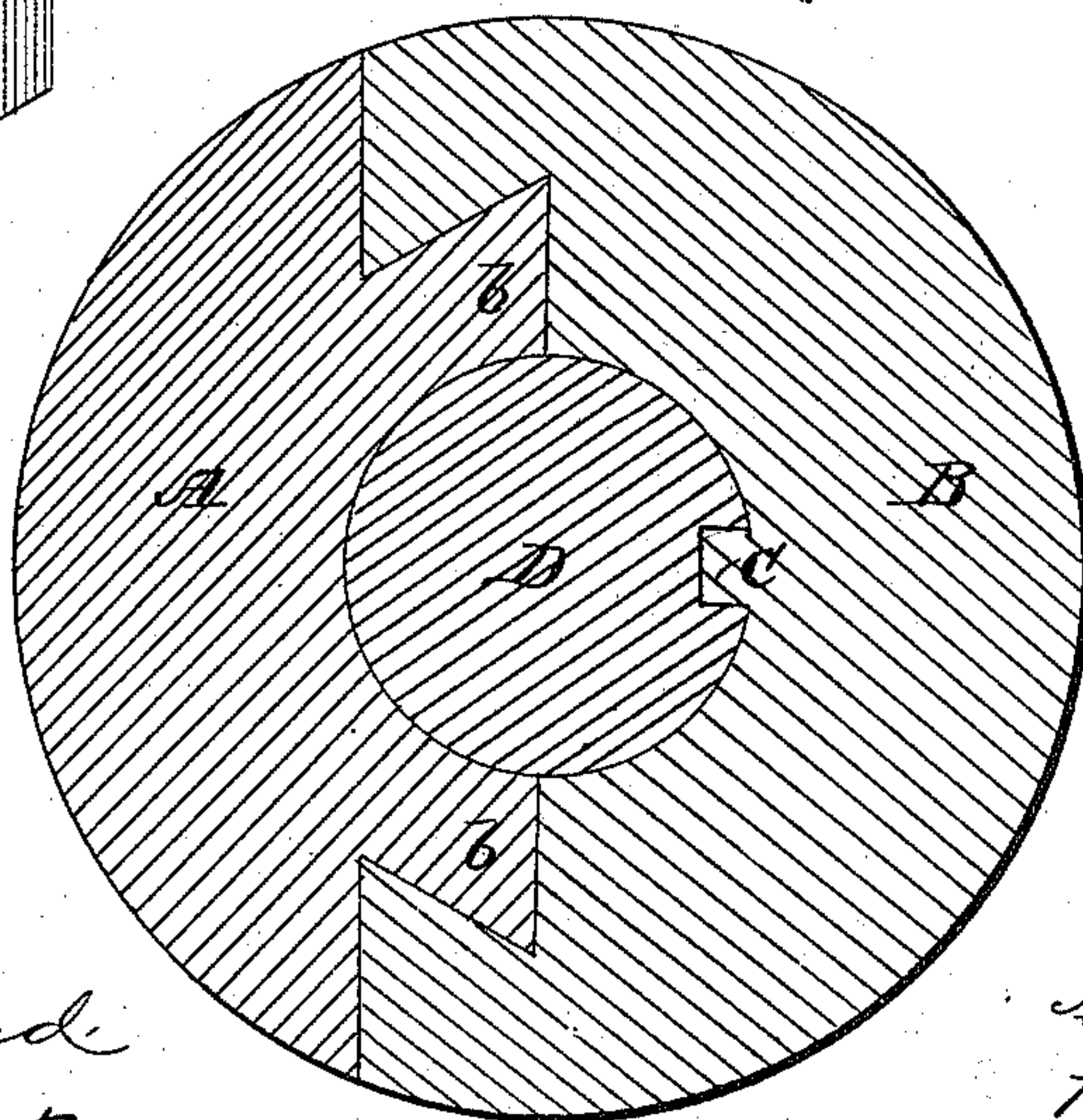


Fig. 4.



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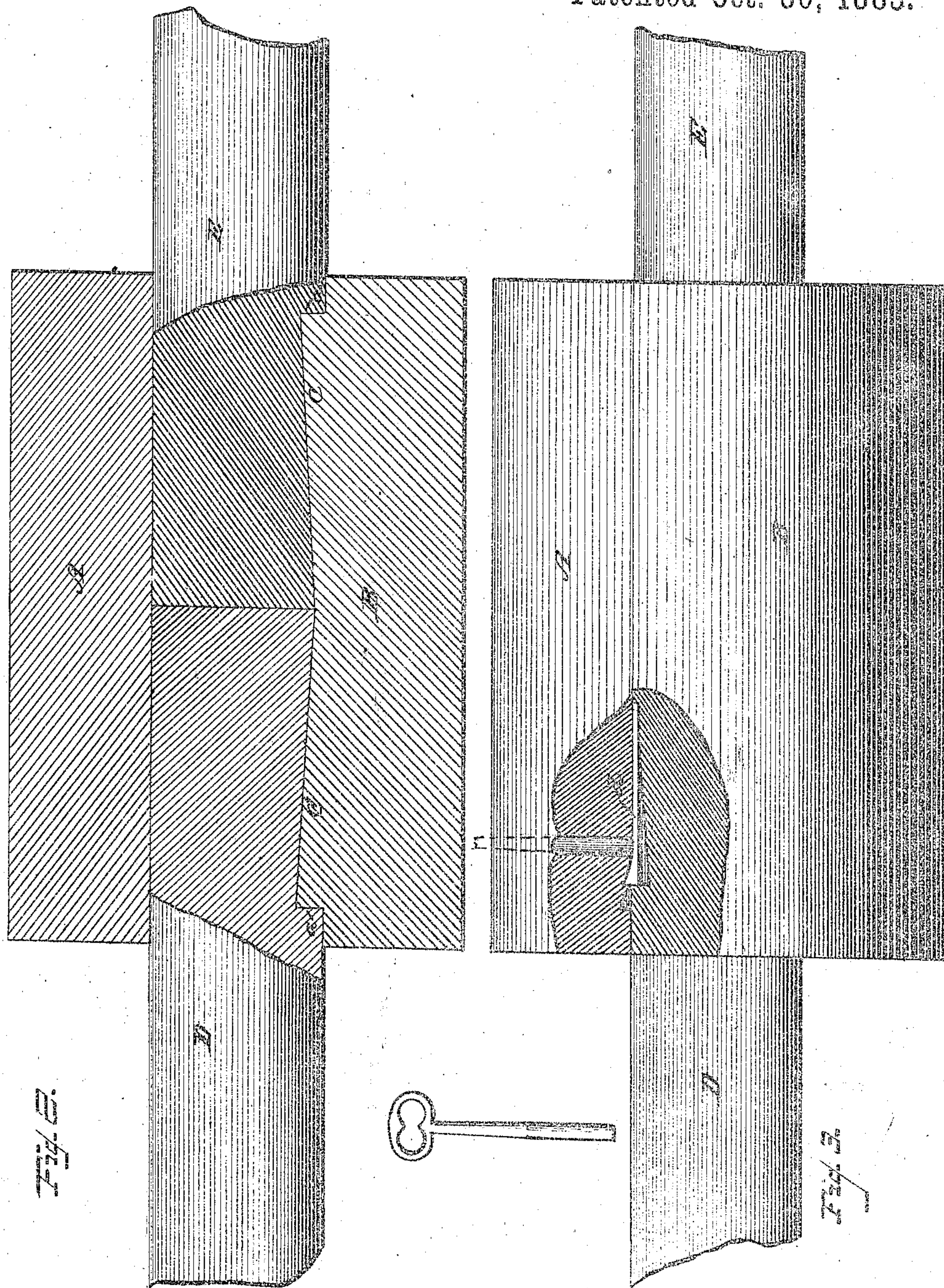
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UNITED STATES PATENT OFFICE.

ABRAHAM FAUST, OF ALLEGHENY CITY, PENNSYLVANIA.

SHAFT-COUPLING.

SPECIFICATION forming part of Letters Patent No. 287,651, dated October 30, 1883.

Application filed September 15, 1883. (No model.)

To all whom it may concern:

Be it known that I, ABRAHAM FAUST, a citizen of the United States, residing at Allegheny City, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Shaft-Couplings; and I do hereby declare that the following is a full, clear, and exact description 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 drawings is a perspective of the sections composing my coupling; Fig. 2, a longitudinal vertical section of the sections and shafting in their coupled position; Fig. 3, a side elevation of the same, and Fig. 4 is a cross-section thereof.

This invention relates to certain new and useful improvements in shaft-couplings, and has for its object to provide such a device that will be simple in its construction, easily operated to firmly secure the shafts in their coupled position, so as to prevent any dislocation thereof when in motion, and at the same time be free from any threads, bolts, screws, or other obstructions such as are usually employed, and which, owing to their liability to jam or rust, have been found objectionable on account of the expenditure of time and labor necessary in uncoupling. A further object is to provide a coupling of the character named which can be either placed upon or removed from the shafting by any ordinary hand, it not requiring any great skill or labor to properly operate or adjust the same. These objects I attain by the construction substantially as shown in the accompanying drawings, and hereinafter more fully described.

In the drawings, A B represent two sections composing my coupling, the former being the male and the latter the female. The male section, A, is formed with a dovetailed projection, *b*, which engages a dovetail mortise, *c*, in the female one, B, both sections being cast with a bore equal to one-half the circumference of the shafting, so that when the two are joined together they fit snugly around said shafting. The female section, B, has formed therewith a key or feather, C, inclining upwardly from the center toward the ends, said key or feather fitting a relatively-inclined mortise in each

section of the shafting D E. Any suitable key or feather, however, may be used.

It will be noticed that the inclined key or feather does not extend entirely to the ends of the section with which it is formed, but terminates so as to leave shoulders *a*, which act to prevent the shafting from being drawn from the coupling, or the coupling to leave the shafting while in motion.

In the operation of my invention the shafting D E is so placed in the bore of the female section of the coupling as to have the inclined mortises engage the relatively-inclined feather of said section. After this adjustment has been effected, the two sections of the coupling, constructed as before described, are dovetailed together and secured by any suitable means, though I prefer to recess a portion of the female section and insert a flat spring-catch, *d*, which, when both sections are joined, will engage a suitable notch or notches, *e*, formed in the male section, said male sections having an orifice made therein to admit the insertion of a key, nail, rod, or other simple implement to depress the spring-catch when found necessary or desirable to uncouple the shafting. When the spring-catch is depressed, a few gentle blows from a hammer, maul, or other suitable implement will cause the male section to slide out of engagement with the female.

Having now fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A shaft-coupling consisting of two sections provided, respectively, with a dovetail projection and a dovetail mortise, one of said sections having cast thereon a suitable feather or key, substantially as and for the purpose set forth.

2. The combination, with sections of shafting provided with mortises extending longitudinally thereof, of a coupling consisting of two sections, each provided, respectively, with a dovetail mortise and a dovetail groove, one of the sections being cast with a suitable key or feather, substantially as and for the purpose set forth.

3. The combination, with sections of shafting having inclined mortises near their ends, of a coupling consisting of a section having a dovetail groove, and a section having a dovetail projection, one of said sections having an

inclined feather or key extending a portion of its length, to form shoulders at each end thereof, substantially as and for the purpose specified.

5 4. A shaft-coupling consisting of two sections adapted to be dovetailed one to the other, one of said sections being formed with a key or feather inclined upwardly from its center toward each end, in combination with sections
10 of shafting having their ends provided with mortises inclined relatively with said key or feather, substantially as and for the purpose set forth.

15 5. The sections herein described, and constituting a shaft-coupling, one of said sections

being provided with a spring-catch, and the other with a notch or notches, with which said catch engages when the sections are joined together around the shafting, this latter section having an orifice in which to insert a suitable
20 implement for depressing the catch when uncoupling the sections, substantially as and for the purpose described.

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

ABRAHAM FAUST.

Witnesses:

W. G. STUBBS,
CHAS. J. READ.