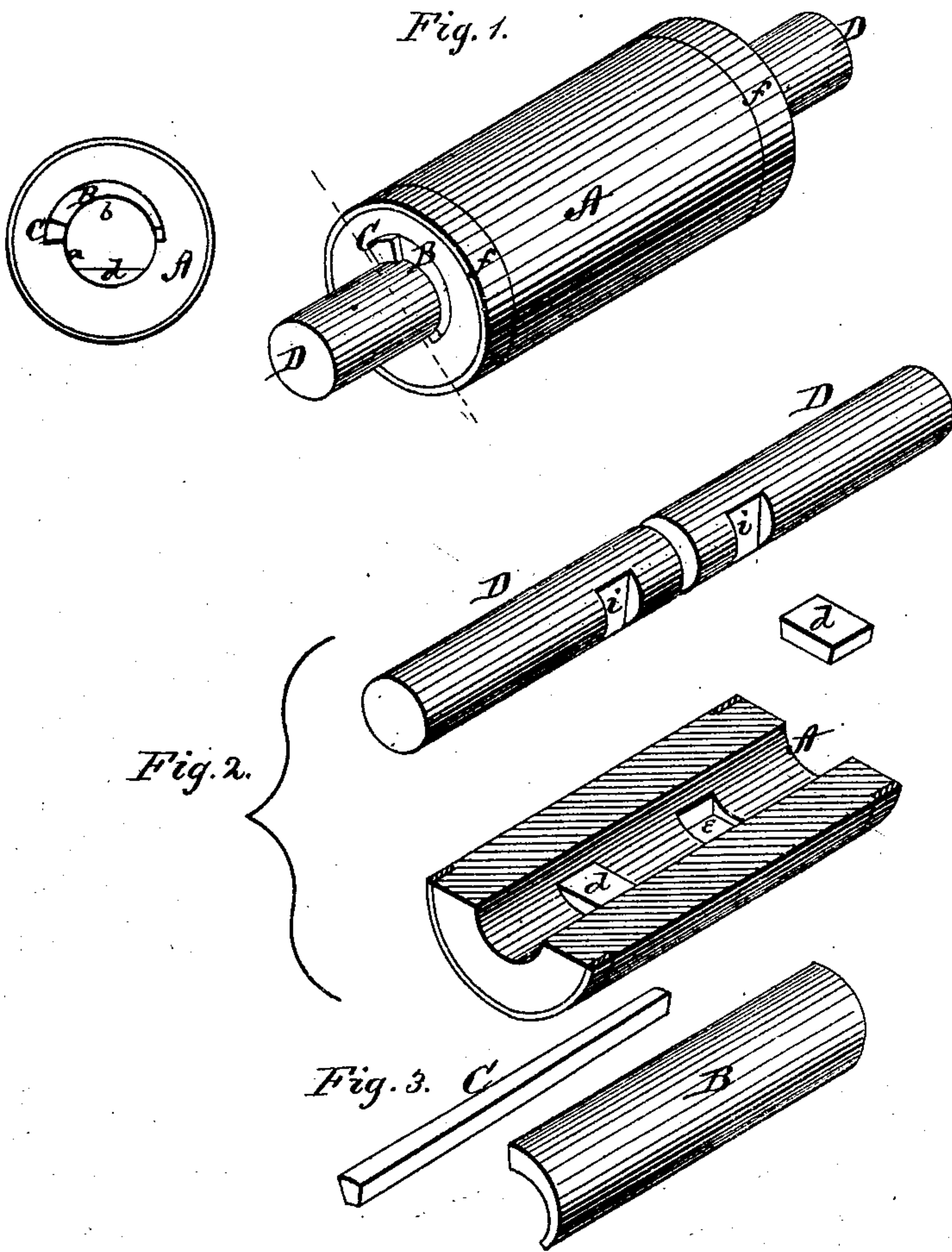


W. W. CRANE.
Shaft Couplings.

No. 133,967.

Patented Dec. 17, 1872.



Witness:

Henry N. Miller
C. L. Ewert.

Inventor.

Wellsby W. Crane,
per Alexander Macdonald

Attorneys.

UNITED STATES PATENT OFFICE.

WELLSLY W. CRANE, OF AUBURN, NEW YORK.

IMPROVEMENT IN SHAFT-COUPPLINGS.

Specification forming part of Letters Patent No. 133,967, dated December 17, 1872.

To all whom it may concern:

Be it known that I, WELLSLY W. CRANE, of Auburn, in the county of Cayuga and in the State of New York, have invented certain new and useful Improvements in Shaft-Couplings; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon making a part of this specification.

The nature of my invention consists in the construction and arrangement of a coupling for shafting, as hereinafter described, which shall be strong and durable, and at the same time easy of adjustment and readily put on and taken off when needed.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a perspective view of my entire shaft-coupling; and Figs. 2 and 3 represent the various parts of my shaft-coupling detached.

A represents a cast sleeve, the external surface of which is cylindrical, while the bore is made of the peculiar shape shown in Fig. 1—that is, the bore *a* in one-half of the sleeve, if the same were cut longitudinally in two equal parts, is made concentric with the outer surface, while that of the other half *b* is made eccentric with the same and of larger diameter than that part of the bore first mentioned. In the eccentric part *b* of the bore is placed an ec-

centric cast clamp, B, and a wedge, C, to fill up and make the true bore concentric with the outside. It is then put into a boring-machine, and the bore made perfectly true. In the bore *a* are cast recesses *e e* to receive cast blocks *d d*, as shown in Fig. 2. D D represent the ends of the two shafts to be coupled together, and in the same are made notches *i i* to fit on the projecting part of the blocks *d d*. The ends of the shafts D D being inserted in the sleeve A, and the notches *i i* over the blocks *d d*, the eccentric clamp B is then placed in its place and the wedge C driven in, which firmly clamps the parts together.

When necessary to remove the coupling the wedge is first withdrawn and then the clamp turned to one side and taken out, when the coupling will readily come off. Around each end of the sleeve A is a wrought-iron band, *f*, shrunk on the casting to strengthen the same.

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

The sleeve A with its recesses *a b e* and blocks *d d*, in combination with the eccentric clamp B, wedge C, and shafts D D with notches *i i*, the several parts being constructed as and for the purposes set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 25th day of November, 1872.

WELLSLY W. CRANE.

Witnesses:

C. L. EVERT,
HARRY C. SCOTT.