

T. F. Taft,

Shaft Coupling.

No. 107,978.

Patented Oct. 4, 1870.

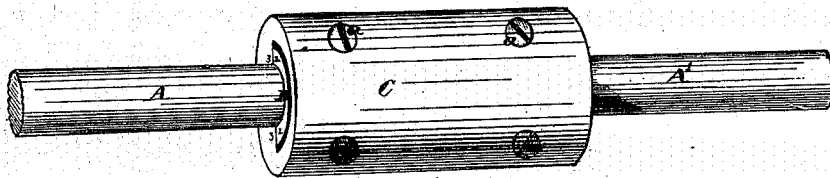


Fig. 1

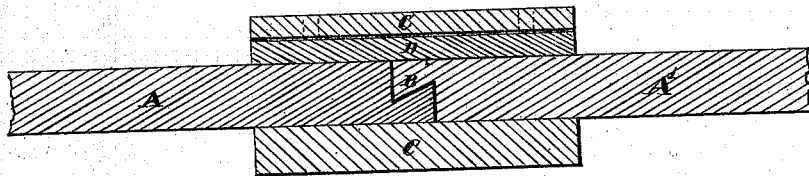


Fig. 2

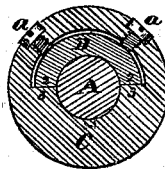


Fig. 3

Witnesses

Chas. H. Dodge
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UNITED STATES PATENT OFFICE

TIMOTHY F. TAFT, OF WORCESTER, MASSACHUSETTS, ASSIGNOR TO AURIN WOOD AND JOSEPH F. LIGHT.

IMPROVEMENT IN SHAFT-COUPPLINGS.

Specification forming part of Letters Patent No. 107,978, dated October 4, 1870.

To all whom it may concern:

Be it known that I, TIMOTHY F. TAFT, of the city and county of Worcester, and State of Massachusetts, have invented certain new and useful Improvements in Shaft-Couplings; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, which form a part of this specification, in which—

Figure 1 represents a perspective view of my improved shaft-coupling. Fig. 2 represents a central longitudinal section, and Fig. 3 represents a transverse section.

To enable those skilled in the art to which my invention belongs to make and use the same, I will proceed to describe it more in detail.

The nature of my invention consists in an improved shaft-coupling, as hereinafter explained.

In the drawings, the parts marked A and A' represent the two lengths of shafting to be joined. The ends to be united are in this instance cut off so as to form a dovetail lock, as shown at B. A sleeve, C, is arranged to slip over and surround the joint where the ends of the shafting meet. Said sleeve C is made as shown in the drawings, being cored out at one side of the center to receive the clamp-piece D, which piece is made in the form of a half-cylinder of the same length as the sleeve C, and is in this instance held in place by means of locking-screws *a a*, set in the shell of the sleeve C, with their ends pressing against the outside of the clamp-piece D, as fully indicated in the drawings.

Splines or wedges may, if preferred, be used in lieu of the screws *a a* for forcing or pressing the clamp-piece D upon the ends of the shafting A A'.

In fitting the coupling for use small pieces or strips of metal are placed between the edges 2 2 of the clamp-piece and flat part 3 3 of the sleeve during the operation of boring out the center to the size of the shafting, so that when the sleeve is arranged upon the shafting there will be sufficient space to permit of the piece D being clamped firmly upon the shaft without striking upon the sides 3 3.

So perfect is the operation of my improved coupling that it will securely couple the ends of small shafting where the ends thereof are simply placed together, without any lock between them.

The sleeve C is formed of cast metal, and can consequently be made very quick and cheaply.

Having described my improved shaft-coupling, what I claim therein as new and of my invention, and desire to secure by Letters Patent, is—

The combination, with the shafting A A', of the sleeve C, cored out on one side and fitting around the shafting on the other, and the clamp-piece D, fitting in the recess formed in the sleeve and held in place upon the shafting, substantially in the manner shown and described.

TIMOTHY F. TAFT.

Witnesses:

THOS. H. DODGE,
A. E. PEIRCE.