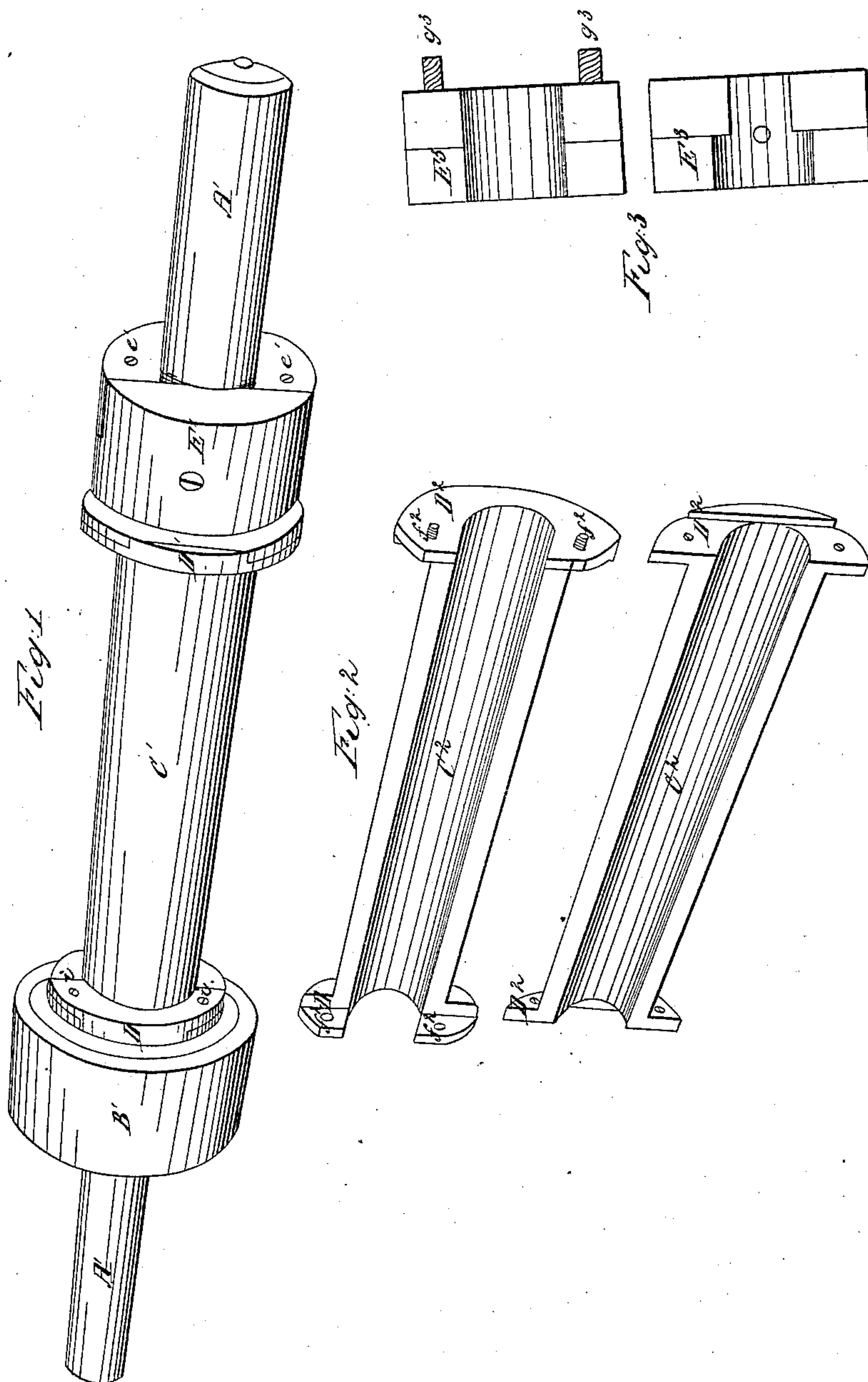


*W. Hayes,  
Shaft Coupling.*

*N<sup>o</sup> 62,746.*

*Patented Mar. 12, 1867.*



# United States Patent Office.

WILLIAM HAYES, OF FALL RIVER, MASSACHUSETTS.

*Letters Patent No. 62,746, dated March 12, 1867.*

## IMPROVEMENT IN PREVENTING THE LAPPING OF BELTS ON SHAFTING.

The Schedule referred to in these Letters Patent and making part of the same.

### TO ALL WHOM IT MAY CONCERN:

Be it known that I, WILLIAM HAYES, of Fall River, in the county of Bristol, and State of Massachusetts, have invented a new and improved Mode of Preventing Belts from Lapping around Shafts when thrown from pulleys; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

My invention consists in a cylinder with heads similar to a spool, and is affixed on the shaft like a loose pulley.

Figure 1 is a perspective view of a shaft and pulley with my invention applied to it.

Figure 2 is a perspective view of my invention, removed from fig. 1, and divided, to illustrate the manner of applying it after the shafts are hung.

Figure 3 is a sectional view of a ring, removed from fig. 1 and divided, to show the manner of applying it to the shaft.

Fig. 1, A<sup>1</sup> A<sup>1</sup> is the shaft; B<sup>1</sup> the pulley; C<sup>1</sup> my invention; D<sup>1</sup> D<sup>1</sup> heads cast with C<sup>1</sup>; E<sup>1</sup> a ring secured to the shaft by set-screw H<sup>1</sup>, which prevents C<sup>1</sup> from oscillating; e<sup>1</sup> e<sup>1</sup> screws which hold E<sup>1</sup> together. Fig. 2, C<sup>2</sup> C<sup>2</sup> the cylinder, shown by C<sup>1</sup> in fig. 1; D<sup>2</sup> D<sup>2</sup> the heads; f<sup>2</sup> f<sup>2</sup>, &c., screws which secure the cylinder together. Fig. 3, E<sup>3</sup> ring shown by E<sup>1</sup> in fig. 1.

The cylinder C<sup>1</sup> and ring E<sup>1</sup> are cast as herein shown, with heads halved together and secured with screws, as shown by f<sup>2</sup> f<sup>2</sup> and g<sup>3</sup> g<sup>3</sup>, in figs. 2 and 3, that they may be easily and quickly applied to the shaft without removing it from its hangings.

The within device being constructed as herein described, and affixed to the shaft as herein shown, its operation may be noted. When the belt slides off or is thrown off from the pulley, it falls on to C<sup>1</sup>, (see fig. 1.) C<sup>1</sup> being loose on the shaft, stops revolving, the belt hangs loose on it, and is thus prevented from lapping.

In this invention I do not confine to the forms set forth for securing the cylinder or ring together—they may be united in any practical manner; nor to the form of cylinder set forth—it may be constructed with but one head, the pulley being a substitute for the other; nor to dividing it, as shown—it may be cast whole, and affixed to the shaft when the pulley is attached; but what I do claim as my invention, and desire to secure by Letters Patent, is—

The device herein described for preventing belts from lapping around shafts, constructed, applied, and operating as herein set forth.

WILLIAM HAYES.

Witnesses:

LOUIS LAPHAM,  
D. STILLWELL.