

P. YOUNG.
SHAFTING AND HANGERS.

No. 173,524.

Patented Feb. 15, 1876.

Fig. 1.

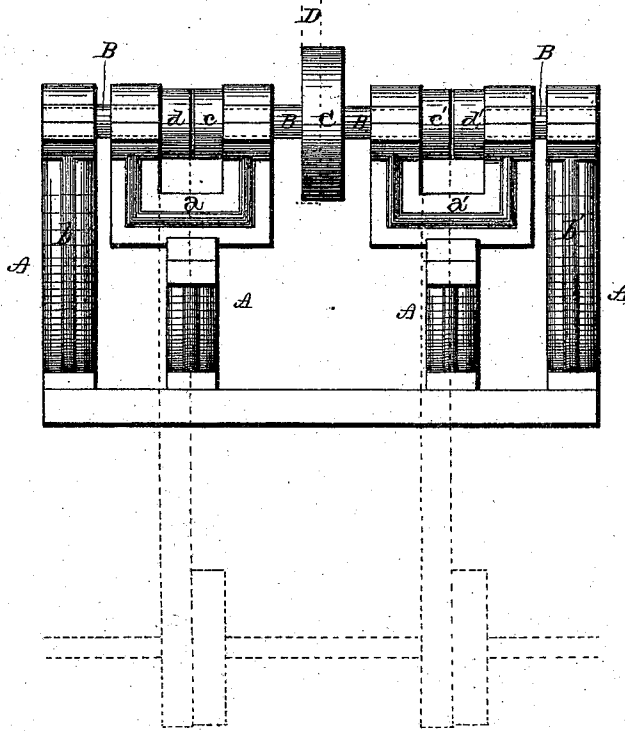


Fig. 2.

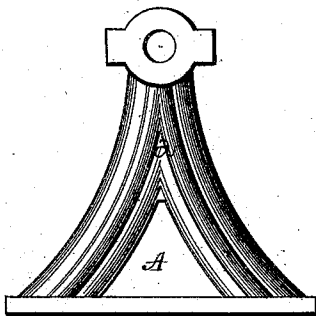
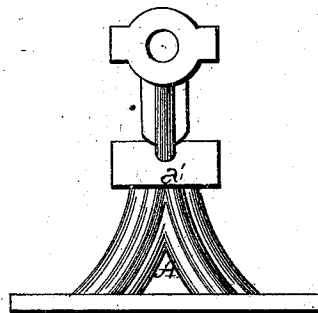


Fig. 3.



WITNESSES.

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per
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UNITED STATES PATENT OFFICE.

PHILLIP YOUNG, OF LOUISVILLE, KENTUCKY.

IMPROVEMENT IN SHAFTINGS AND HANGERS.

Specification forming part of Letters Patent No. **173,524**, dated February 15, 1876; application filed July 23, 1875.

To all whom it may concern :

Be it known, that I, PHILLIP YOUNG, of Louisville, in the county of Jefferson and State of Kentucky, have invented certain new and useful Improvements in Shafting, and I hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification.

My invention relates to an improvement in shafting, and it consists in the application of double hangers, and in cutting the counter-shaft into sections, to avoid, in reversing the revolutions of the machinery, a great and unnecessary wear, as will be more fully described hereafter.

The accompanying drawing represents my invention. A represents the hangers, which may be placed in any desired position, and which are composed of two double hangers, *a a'*, and two single hangers, *b b'*, one of the latter being placed at the outer ends of the outer sections of the shaft. The shaft B is divided at the center of the double hangers *a* and *a'*, so as to form three sections, the central one extending from the center of *a* to the center of *a'*, carrying on each end a fixed pulley, *c c'*, and in the middle, between the two hangers *a a'*, the driving wheel or pulley C, which pulley may be connected by belt D with any machine desired.

Upon the inner ends of the outer sections of

the shaft B are the pulleys *d d'*, revolving respectively with the section of the shaft to which they are firmly secured.

The outer sections of the shaft and the pulleys *d d'* are for reversing the revolutions of the machine, instead of four pulleys now in use, two of which are loose and the other two tight. When the twist-belt is applied, in the hangers now in use, the pulley over which it runs makes twice as many revolutions as the shaft, while in my invention the pulley being secured can move at the speed of the shaft only. The wear of the pulleys is consequently reduced to less than one-half. In the old construction the pulleys require a renewal of Babbitt metal three or four times a year, while in a hanger of my invention the pulleys run for years without requiring such renewal.

Having thus described my invention, I claim—

1. In shafting the combination of the shaft B divided in three sections, the hangers *a a'*, *b b'*, driving-pulleys C, and belts D, substantially as shown.

2. The combination of the divided shaft B and the single and double hangers, substantially as set forth.

In testimony that I claim the foregoing, I have hereunto set my hand this 24th day of June, 1875.

PHILLIP YOUNG.

Witnesses:

A. WUNDERLICH,
C. W. BORGMAN.