A. FAUST.

Coupling for Shafting, Tubing, &c.

No. 218,723. Patented Aug. 19, 1879.

Fig. 1.

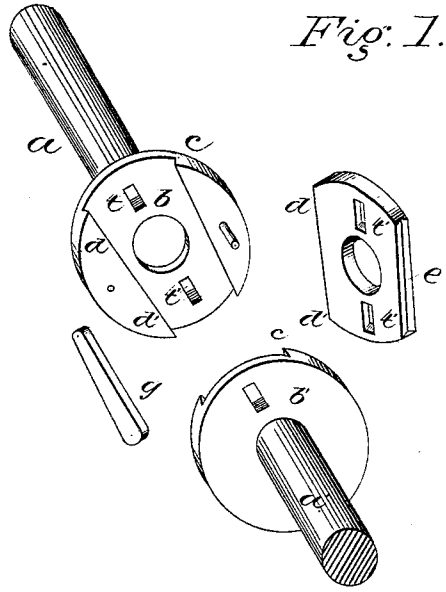


Fig. 2.

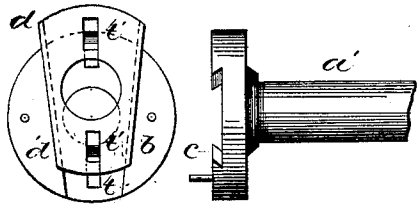
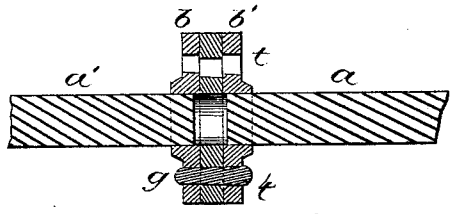


Fig. 3.



Witnesses:

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UNITED STATES PATENT OFFICE.

ABRAHAM FAUST, OF PITTSBURG, PENNSYLVANIA.

IMPROVEMENT IN COUPLINGS FOR SHAFTING, TUBING, &c.

Specification forming part of Letters Patent No. **218,723**, dated August 19, 1879; application filed August 8, 1878.

To all whom it may concern:

Be it known that I, ABRAHAM FAUST, of Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented a new and useful Improvement in Couplings for Shafting, Tubing, &c.; and I do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a detached view of devices embodying my invention as applied to the coupling of shafting. Fig. 2 is a similar view, the key or wedge in position and one part of the coupling detached. Fig. 3 is a sectional view of the same, the parts being in position for coupling.

Like letters refer to like parts wherever they occur.

My invention relates to method and devices for coupling shafting, tubing, &c.; and consists in a special application of the double-incline or key principle.

I will now proceed to describe my invention, so that others skilled in the art to which it appertains may apply the same.

I form in both of the coupling-sections a groove with double taper, or one adapted to receive a beveled wedge, and employ a wedge having a groove or double bevel.

In the drawings, Figs. 1, 2, and 3, is shown the double-tapered wedge and tapered groove on each section, *a a'* indicating the shafting, and *b b'* the sections of coupling attached thereto, each dovetailed or beveled, as at *c*, so as to lock the parts, and tapered, as from *d* to *d'*, to wedge the same, the double incline or keyway thus formed serving to draw the sections together. With dovetails and tapers thus applied a grooved or double-inclined wedge, *e*, is employed; and in order to drive the same in and out with greater ease, slots *t t'*, extending through both key and grooved sections, are employed, the slots in the key *e* being arranged so that they will not register with the slots of the grooved sections, whereby when a wedge, *g*, is driven into another slot, it will either draw the parts together or force them apart, according to the manner in which the non-registering slots are related to the key and groove.

When pipe or tubing are to be coupled by the devices shown in Figs. 1, 2, and 3, a gasket or packing of rubber, felt, or like fabric may be inserted; but if the workmanship has been good this will seldom be required.

It will be evident from the foregoing description that a skilled mechanic can modify and adapt the coupling described to the special requirements of the case without further invention.

The advantages of my invention are the simplicity and effectiveness of the devices, the ability to make perfect and operative couplings without accurate fitting up, and the readiness, ease, and cheapness with which couplings of either shafting or tubing can be made.

I am aware that beveled keys having straight or parallel sides have heretofore been employed, and do not claim the same; but,

Having thus described the nature, object, and advantages of my invention, what I claim, and desire to secure by Letters Patent, is—

1. In a coupling for shafting or tubing, the combination of a double-inclined wedge and two sections, each having a tapered dovetailed groove, substantially as and for the purpose specified.

2. The combination, with a slotted double-inclined wedge or key and two sections, each having a tapered dovetailed groove and slots, of a wedge for either tightening and locking or loosening the coupling, substantially as specified.

In testimony whereof I, the said ABRAHAM FAUST, have hereunto set my hand.

ABRAHAM FAUST.

Witnesses:

F. W. RITTER, Jr.,

JNO. K. SMITH.