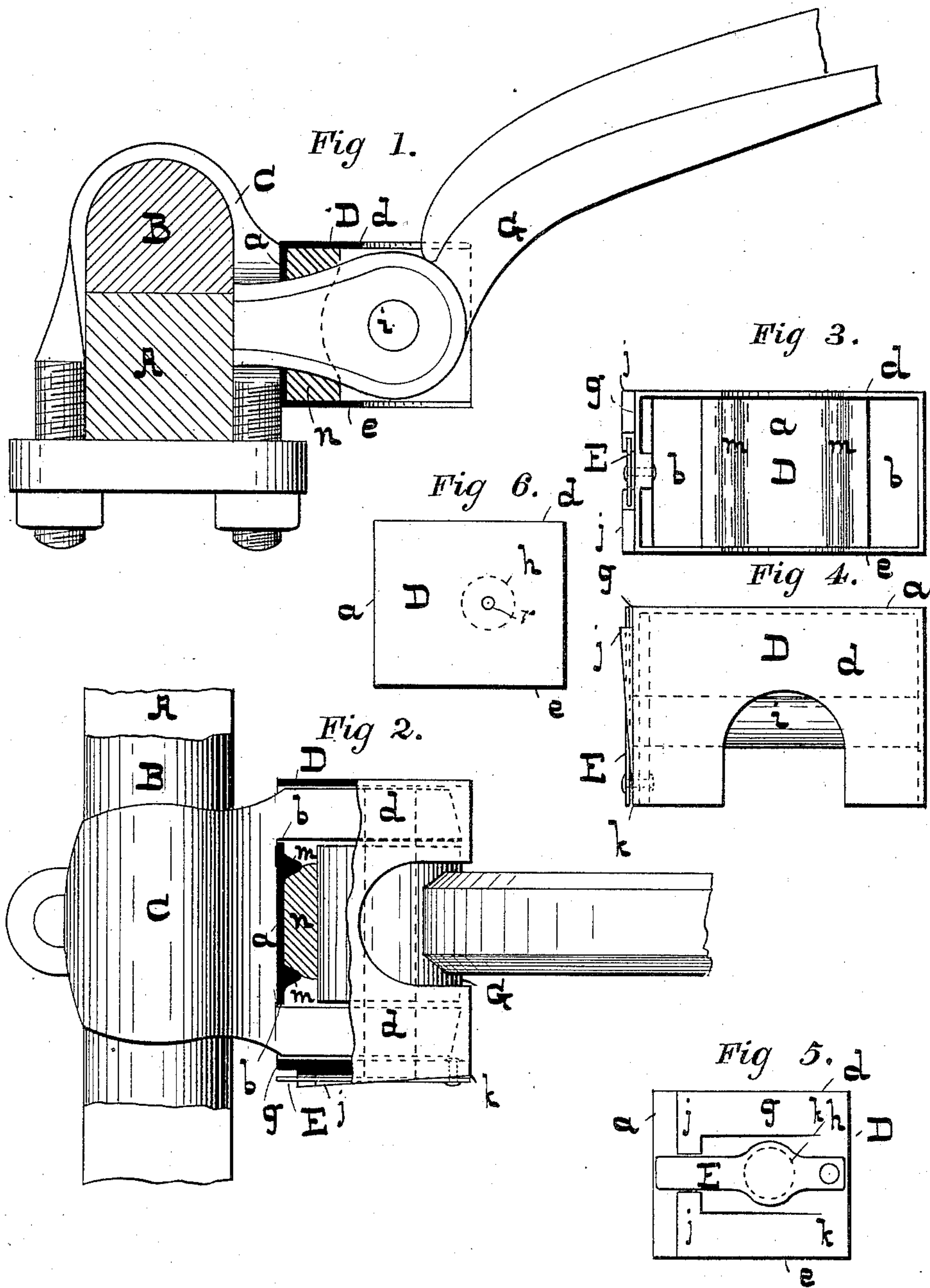


(No Model.)

W. WHEELER.
THILL COUPLING.

No. 442,930.

Patented Dec. 16, 1890.



-WITNESSES-

Dan'l Fisher
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-INVENTOR-

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UNITED STATES PATENT OFFICE.

WILLIAM WHEELER, OF MOUNT CARMEL, MARYLAND.

THILL-COUPLING.

SPECIFICATION forming part of Letters Patent No. 442,930, dated December 16, 1890.

Application filed September 2, 1890. Serial No. 363,784. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM WHEELER, of Mount Carmel, in the county of Baltimore and State of Maryland, have invented certain Improvements in Guards for Carriage-Shaft Couplings, of which the following is a specification.

In the further description of the said invention which follows, reference is made to the accompanying drawings, forming a part hereof, and in which—

Figure 1 is a partly sectional side view of a shaft-coupling applied to an axle and furnished with the improvement forming the subject of this specification, and Fig. 2 a partly sectional top view of the same. Fig. 3 is a front view of the invention, and Fig. 4 a top view of the same. Fig. 5 is a side view of Fig. 3; and Fig. 6, a side view, but the reverse of that shown in Fig. 5.

Referring to the drawings, A is the axle, and B the wood bed, of the same.

C is the shaft-coupling, which is of ordinary construction.

D is a box formed, preferably, of steel, very thin, so as to have considerable inherent elasticity or spring. The back plate *a* has two holes *b*, through which the jaws of the coupling enter the box. The top and bottom plates of the box, respectively, denoted by *d* and *e* are recessed out, so as to admit of the raising and lowering of the shafts. The side *g* of the box has a hole *h*, through which the coupling-pin *i*, which is devoid of a head and nut, is inserted through the jaws of the coupling. This pin is held in place by means of a pivoted sliding spring-cover E. This cover is held directly over the end of the pin by the projections *j*, which are tapered off at their ends flush with the face of the box at *k*. At the other side of the box and directly opposite the hole *h* is a small aperture, through which a wire or any suitable instrument is inserted

to force out the coupling-pin when the same is to be removed. Of course it will be necessary before the pin can be removed that the spring-cover should be turned aside. Lugs *m*, projecting from the back plate *a*, form a recess, into which a piece of rubber *n* is placed to prevent rattling of the shaft-eye G.

From the foregoing it will be seen that the shaft or a pole may be almost instantly removed from the coupling, but the pin cannot become accidentally detached.

The inherent spring or elasticity of the box allows it to fit couplings differing slightly in size.

I claim as my invention—

1. In a guard for a shaft-coupling, a box adapted to fit over it, with holes in the rear or back plate thereof, through which the jaws of the coupling pass, and the side plates provided one with a hole for a coupling-pin and the other with a hole less than the coupling-pin, combined with a coupling-pin and a sliding pivoted cover to close the hole through which the pin is inserted, substantially as and for the purpose specified.

2. In a guard for a shaft-coupling, a box adapted to fit over the coupling, with its back plate provided with holes to receive the jaws of the coupling, and its side plates with holes, one to receive the coupling-pin and the other, which is smaller than the said pin, to be used in backing out the said pin, combined with the coupling-pin and a sliding cover to prevent the withdrawal of the said pin, substantially as and for the purpose specified.

3. In combination with a box D, having the holes *h* and *r*, the sliding pivoted spring-cover E, and the lugs *j*, substantially as and for the purpose specified.

WILLIAM WHEELER.

Witnesses:

WM. T. HOWARD,
DANL. FISHER.