

BETSEY ANN WORDEN.
Improvement in Car-Couplings.

No. 126,122.

Patented April 23, 1872.

fig. 1.

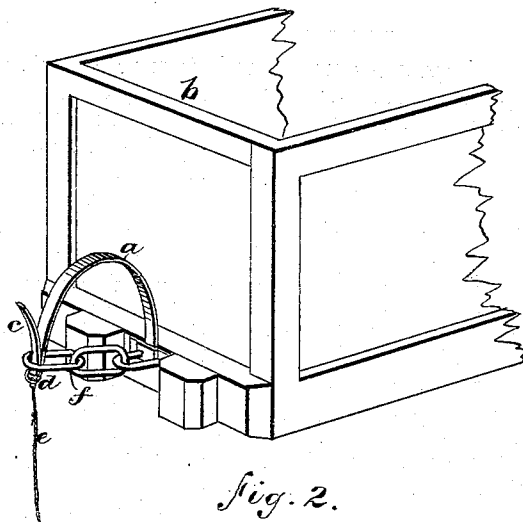
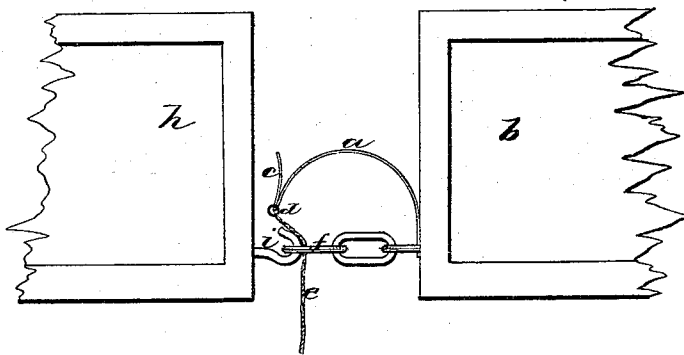


fig. 2.



Witnesses.

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UNITED STATES PATENT OFFICE.

BETSEY ANN WORDEN, OF SCRANTON, PENNSYLVANIA.

IMPROVEMENT IN CAR-COUPPLINGS.

Specification forming part of Letters Patent No. 126,122, dated April 23, 1872.

Specification describing a certain Improvement in Automatic Car-Couplings, invented by BETSEY ANN WORDEN, of Scranton, Luzerne county, Pennsylvania.

This invention relates to that class of automatic car-couplings whose great merit is that they do not endanger human life. The invention consists in the combination of an elastic curved arm extending forward from the end of a car, and so constructed as to uphold the outer end of a chain or link whose inner end is attached to the car beneath the said arm, the principle being that when the arm aforesaid is struck by an approaching car the chain or link is disengaged by the concussion, and falls upon a hook attached to said approaching car, thus coupling it with the car to which the chain is secured.

Figure 1 is a perspective view, and Fig. 2 a side elevation.

a is the elastic arm aforesaid, the same being attached at one extremity to the end of a car, *b*, in any sufficient manner, and extending outward to any suitable distance, said arm having at its outer end a finger, *c*, projecting upward and forward. At the junction of the

arm *a* and finger *c* is a ring, *d*, hung to the arm, to which ring a cord, *e*, is fastened. The cord *e* passes through the outer link of a chain, *f*, whose inner link is secured to the car *b* at a point directly beneath the arm *a*. The function of the cord *e*, as shown, is to draw the end link *f* up over the ring *d*, by means of which said link is upheld on the arm *a*; but, when the finger *c* is struck by the approaching car *h*, it forces back the arm *a*, withdrawing the ring *d* from the chain *f*, so that the latter falls upon the hook *i* of the car *h*, thus automatically coupling the two cars. The chain *f* may be manipulated without the intervention of the cord *e*, if preferred.

I claim as my invention—

1. The arm *a*, provided with the finger *c*, and combined with the ring *d* and chain *f*, as and for the purpose described.
2. The combination of the foregoing with the cord *e*, as specified.

BETSEY ANN WORDEN.

Witnesses:

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FREDK. FULLER.