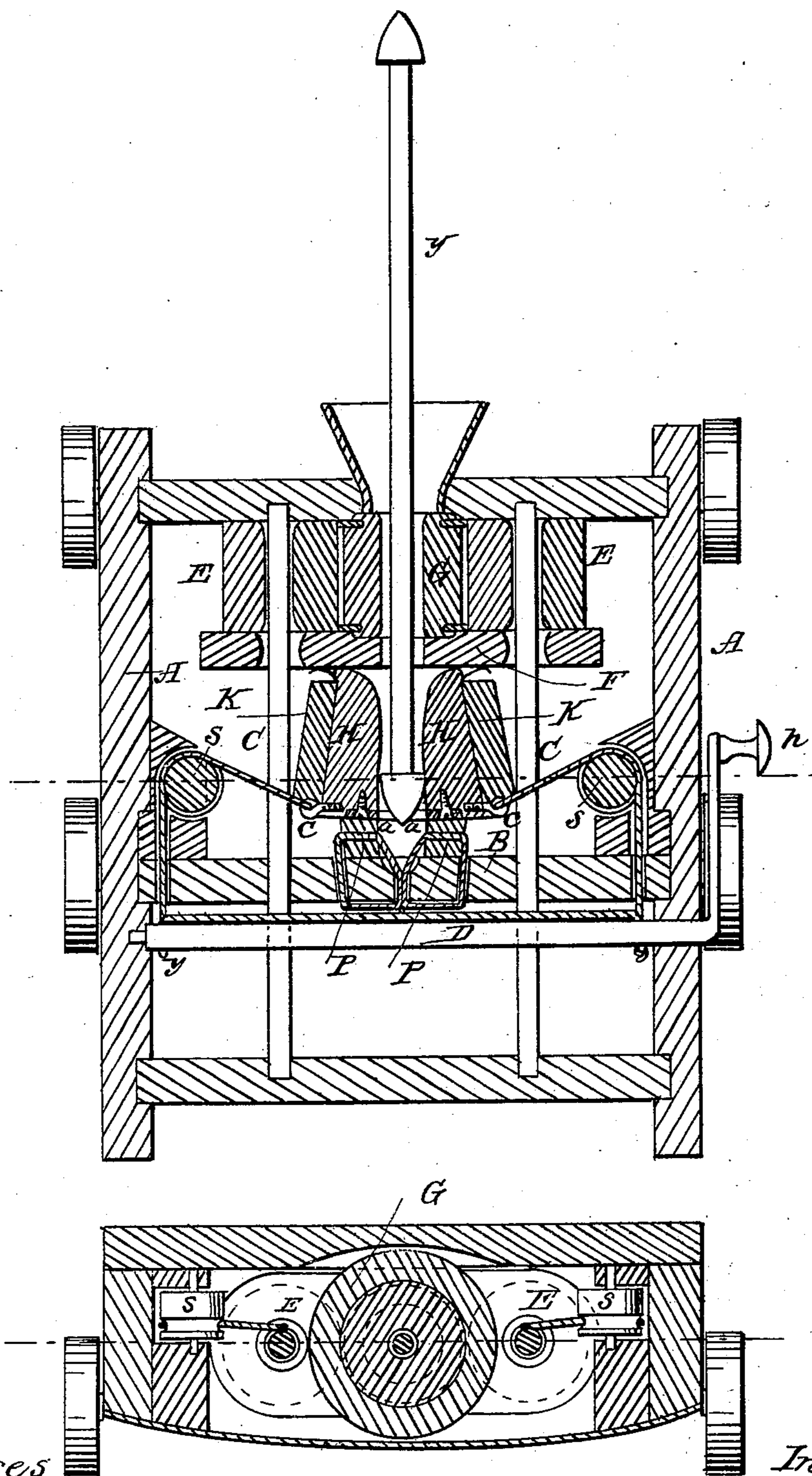


O. KELSEY.
Car Coupling.

No. 92,839.

Patented July 20, 1869.



Witnesses

E. W. Anderson
James P. Greaves

Inventor

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United States Patent Office.

ORSON KELSEY, OF COMMERCE, MICHIGAN.

Letters Patent No. 92,839, dated July 20, 1869.

IMPROVED RAILWAY-CAR COUPLING.

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, ORSON KELSEY, of Commerce, in the county of Oakland, and State of Michigan, have invented a new and valuable Improvement in Car-Coupling; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1, of the drawings, is a plan view of my invention.

Figure 2 is a detail.

My invention relates to means for coupling cars; and

It consists mainly in the construction and novel arrangement of devices intended to serve as a reliable and efficient apparatus for the purpose designated.

The letter A, of the drawings, represents the bottom of a car in which my coupling is arranged, having a cross-bar, B, that divides said bottom into two compartments, as shown.

The letters C represent shafts, that are arranged longitudinally in the car-bottom, and the letter D is a crank-shaft, arranged in the rear compartment, and at right angles with shafts C, as shown.

The letters E represent India-rubber rollers, that rotate upon the shaft C, in front of the cross-head, marked F, and in the rear of the front bar of the frame.

The letter G represents a stationary rubber cylinder, placed between the cross-head F and the front bar of the frame, and having an opening through its longitudinal centre, for the passage of the link, hereinafter described.

The letter H represents a ring, or cylinder, made in two sections, and surrounded by an India-rubber ring, marked K. This ring H is formed in two sections, to provide for being drawn apart for the passage of the link, and the rubber ring is arranged to operate as a spring, to draw the two sections together after having been thus separated.

The letters *a* represent metallic plates, affixed to

the rear ends of the sections of ring H, to serve as rests or shoulders for the coupling-link.

The letter P represents a solid disk, of India rubber, intended to serve as a stop or abutment for the rear end of the coupling-link.

I affix staples, marked *c*, to the rear ends of the sections of ring H, and I also arrange pulleys, marked *s*, to the sides of the frame, as shown.

I, furthermore, make openings through the crank-shaft D at the points *v* and *y*.

I then provide a strong cord, *n*, and attach one end thereof to one of the staples *c*, and pass it around a pulley, *s*, through the openings *v* and *y* and the opposite pulley *s*, and make it secure to the other staple *c*, in the manner shown on the drawings.

Above the openings *v* and *y*, upon the crank-shaft, I make knots in the cord, or otherwise arrange means to prevent the cord from being drawn back and forth therein.

The letter Y represents the coupling-link. It is a long, arrow-headed metallic rod, adapted to pass through the openings of cylinders G and H, and to be held firmly by the plates *a* when the ring K has drawn the sections of the ring H to their places.

My coupler is operated by the crank *h*, or suitable gearing connected with the shaft D.

The arrangement herein described is intended to provide a strong and efficient car-coupler, that shall be permanent and noiseless.

What I claim as my invention, and desire to secure by Letters Patent, is—

The car-coupler, herein described and shown, having shafts C and D, rollers E, cylinders G, H, and K, plates *a*, pulleys *s*, disk P, cord *n*, and link Y, constructed and arranged substantially as specified.

In testimony that I claim the above, I have hereunto subscribed my name, in the presence of two witnesses.

ORSON KELSEY.

Witnesses:

AARON OYSTERBANKS,
JOSHUA WOODWARD.