

No. 771,244.

PATENTED OCT. 4, 1904.

G. HEINICKE.
CAR COUPLING.

APPLICATION FILED JULY 19, 1904.

NO MODEL.

2 SHEETS—SHEET 1.

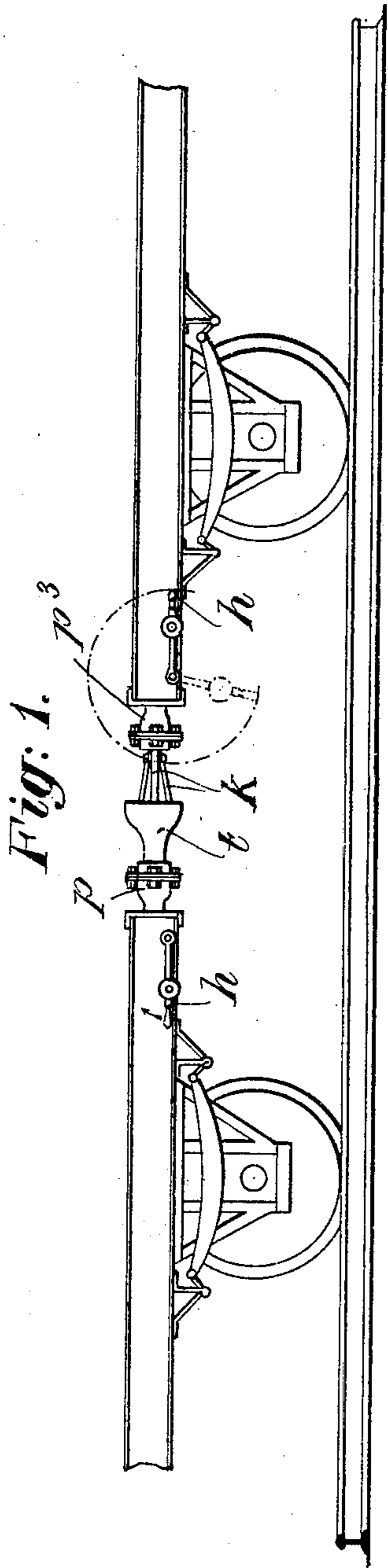
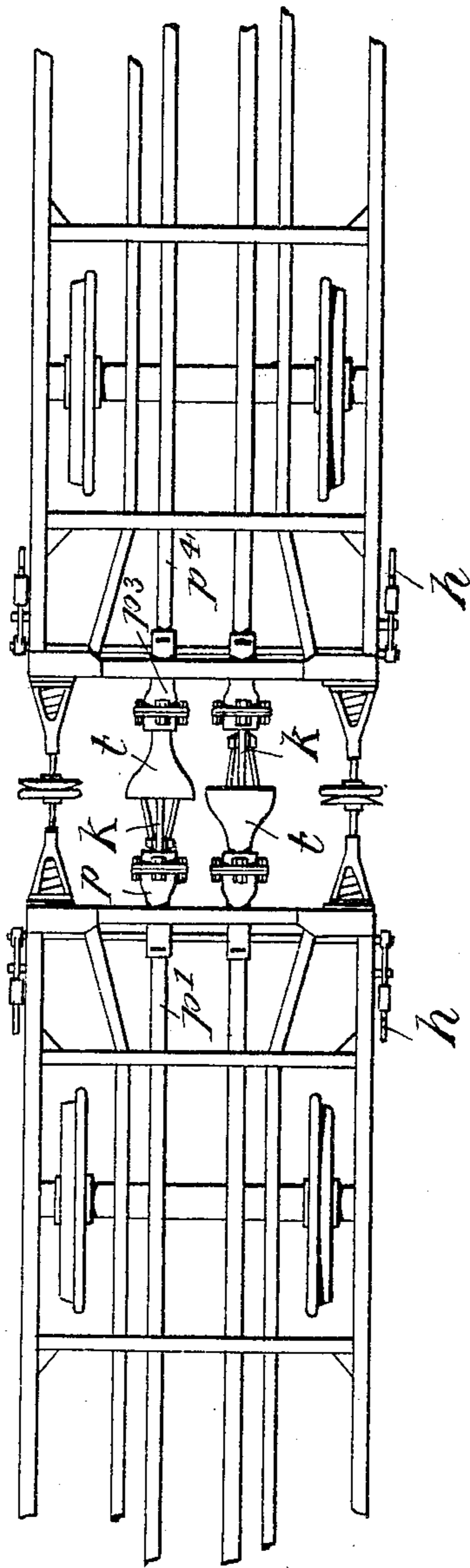


Fig. 2.



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Inventor:
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2 SHEETS—SHEET 2.

Fig. 4.

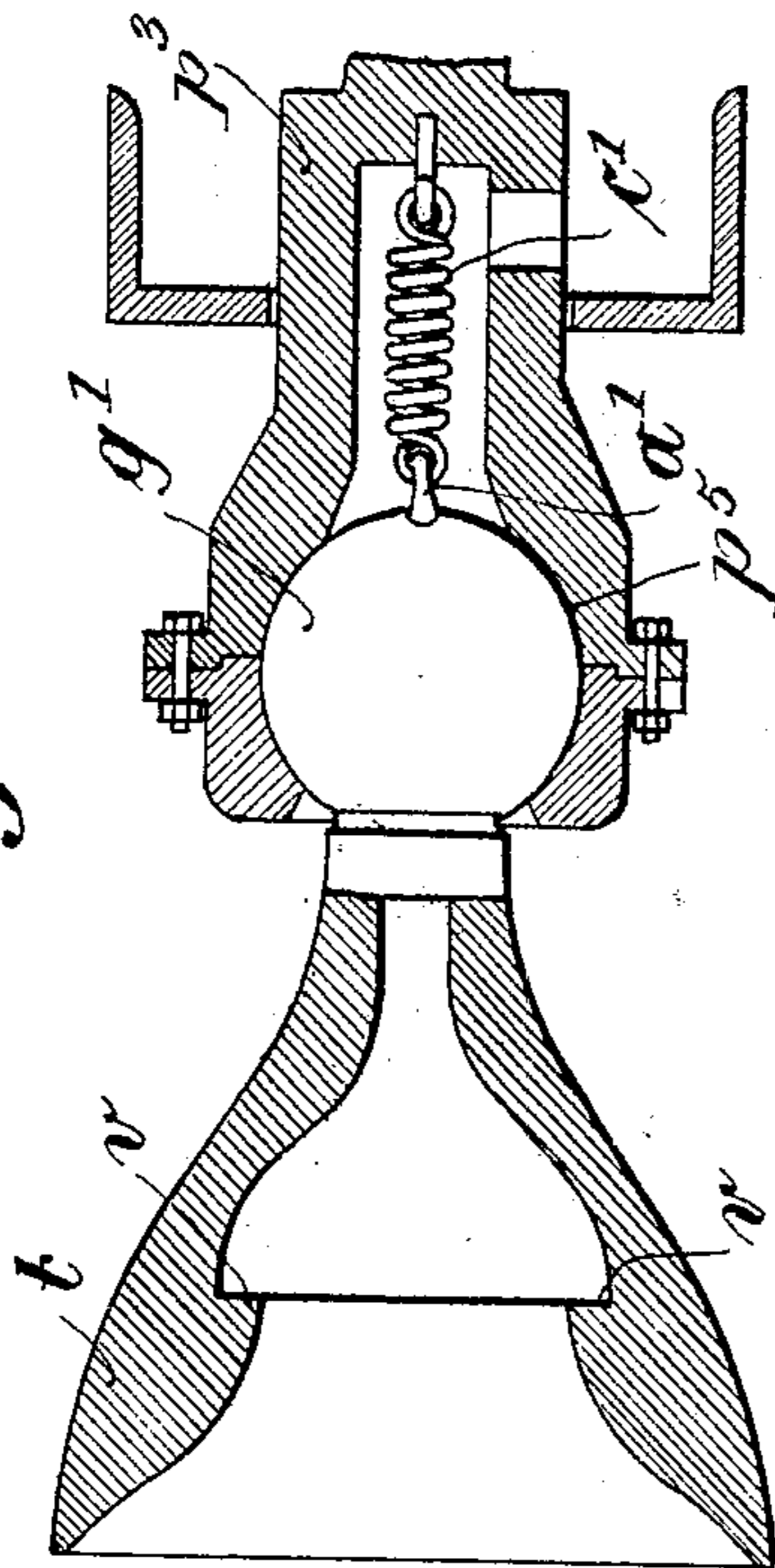


Fig. 3.

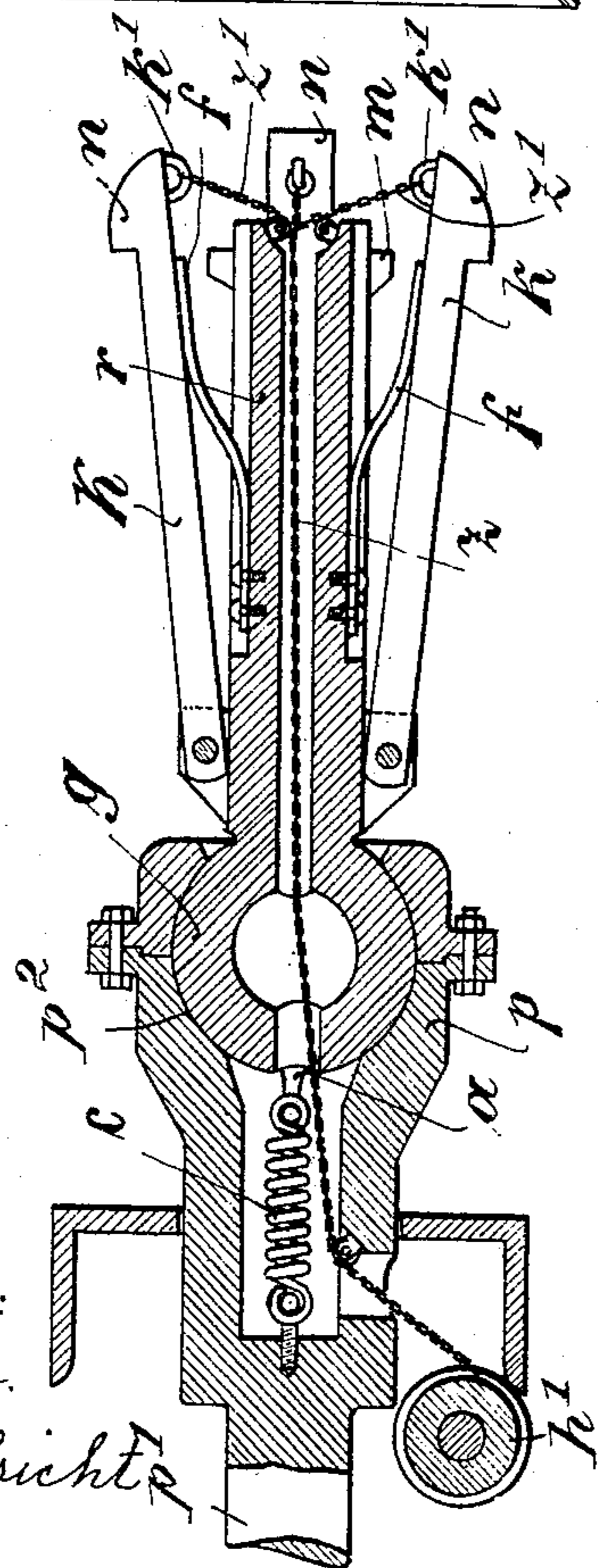
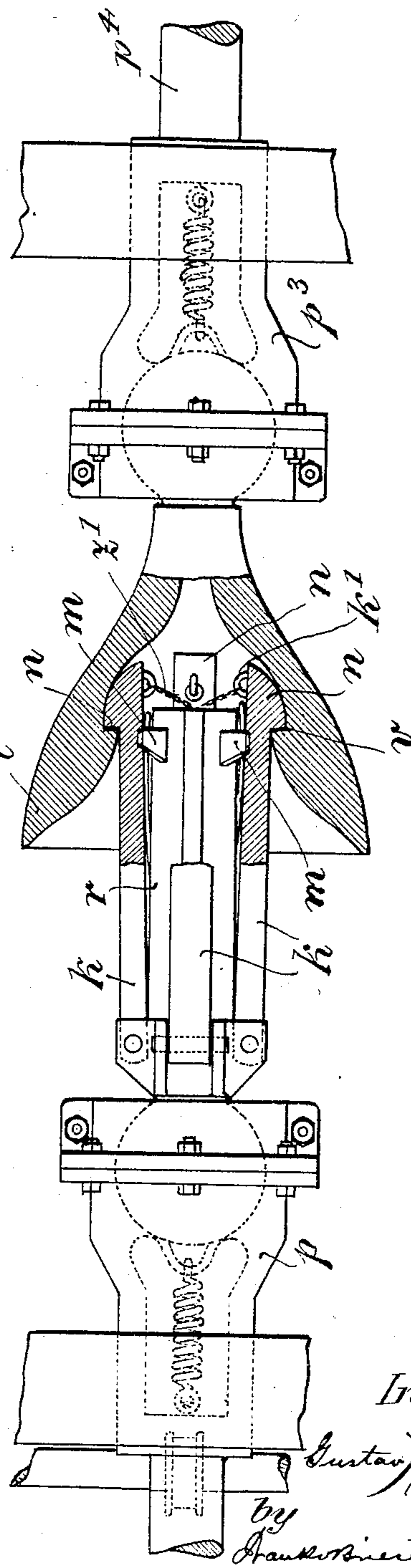


Fig. 5.



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UNITED STATES PATENT OFFICE.

GUSTAV HEINICKE, OF CREFELD, GERMANY.

CAR-COUPLING.

SPECIFICATION forming part of Letters Patent No. 771,244, dated October 4, 1904.

Application filed July 19, 1904. Serial No. 217,178. (No model.)

To all whom it may concern:

Be it known that I, GUSTAV HEINICKE, a citizen of Germany, residing at Crefeld, Germany, have invented certain new and useful Improvements in Car-Couplings, of which the following is a specification.

This invention relates to an improved car-coupling which is reliable, may be readily manipulated, and permits free movement of the cars.

In the accompanying drawings, Figure 1 is a side elevation of my improved car-coupling; Fig. 2, a plan thereof; Fig. 3, a detail vertical section through the male member of the coupling; Fig. 4, a similar section through the female member; and Fig. 5, a plan, partly in section, showing the coupling closed.

The male member of the coupling consists of a tubular support *r*, to which are pivoted a number of jaws *k*, having heads *n* and pressed normally outward by springs *f*. The tube *r* is connected to the head *p* of the draw-bar *p'* by a ball-and-socket joint or swivel *g* *p*². A spring *c* connects a hook *a* of ball *g* with head *p* of rod *p'* and tends to maintain the coupling in a horizontal position, while allowing free movement of the cars in all directions. At their free ends the jaws *k* have eyes *k'*, to which are secured chains *z'*, which are con-

nected to a common chain *z*. This chain passes through tube *r* and is attached to a pulley *h'*, operated by hand-lever *h*. By turning the lever the jaws *k* are drawn inward until arrested by stops *m*. If the hand-lever is released, the jaws are thrown outward by their springs *f*.

The female member of the coupling consists of a bell-shaped socket *t*, provided with an inner shoulder or offset *v*, that is engaged by the heads *n* of jaws *k*. The socket *t* is secured to the head *p*³ of a draw-bar *p*⁴ by a ball-and-socket joint or swivel *g'* *p*⁵. A spring *c'* connects eye *a'* of ball *g'* with draw-head *p*³ of bar *p*⁴.

What I claim is—

In a car-coupling a male member comprising a swiveled spring-influenced tube, spring-influenced jaws pivoted thereto, and a chain connected to the jaws and passing through the tube, substantially as specified.

Signed by me at the United States consulate, Crefeld, Germany, this 13th day of June, 1904.

GUSTAV HEINICKE.

Witnesses:

W. BRUCE WALLACE,
ERNST VOELCKERS.