

(No Model.)

2 Sheets—Sheet 1.

D. ZEIGLER.

CAR COUPLING.

No. 346,881.

Patented Aug. 3, 1886.

FIG. 1.

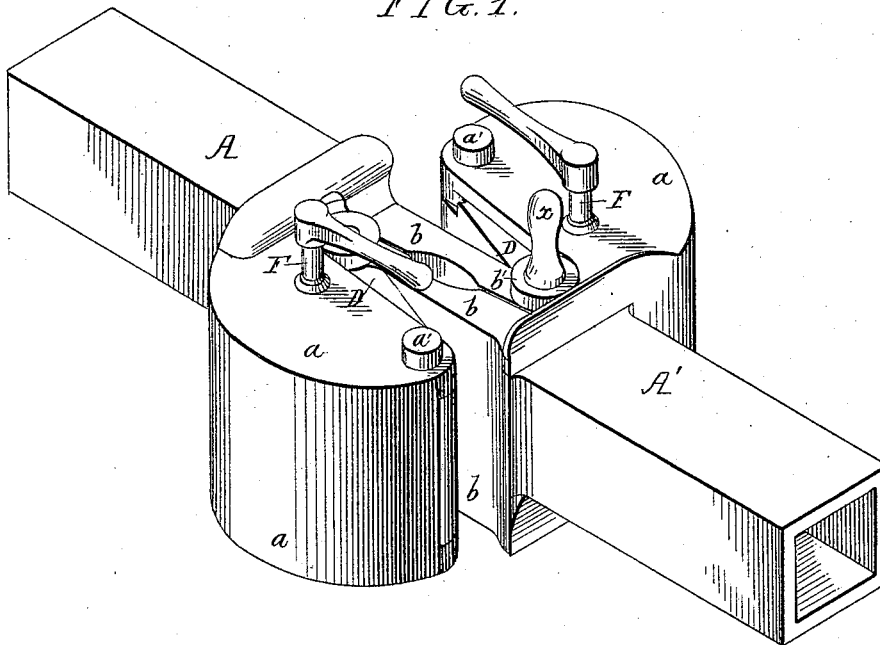
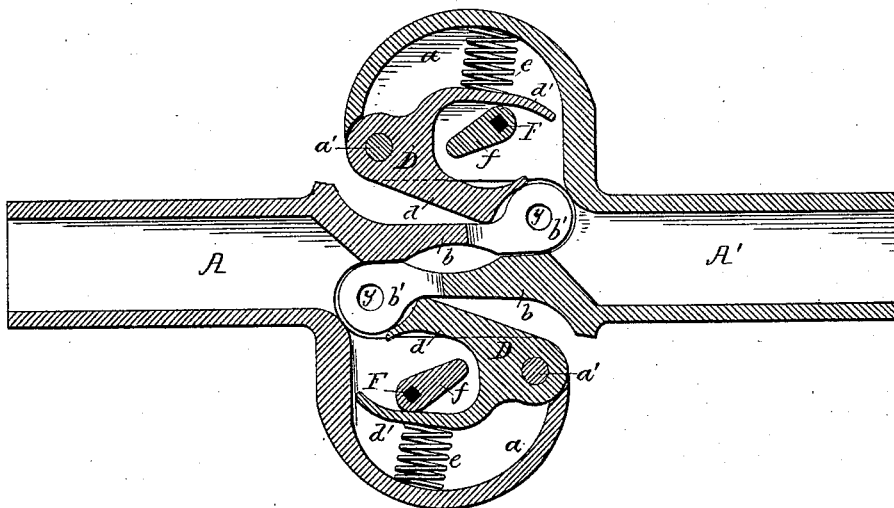


FIG. 3.



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Hamilton O. Turner.

Inventor:
Daniel Zeigler
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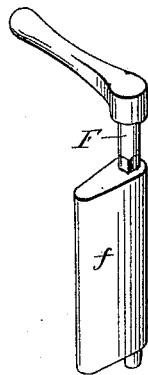
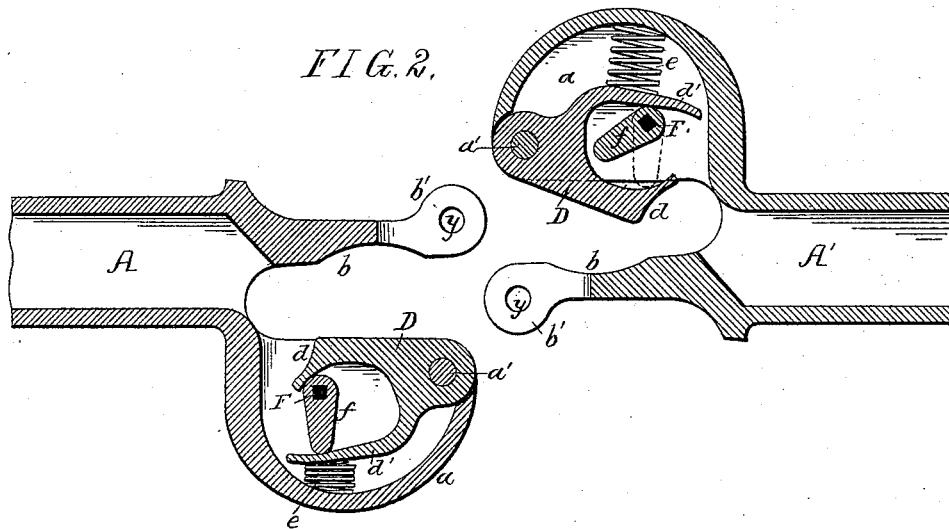
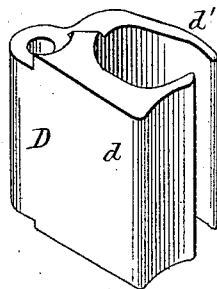


FIG. 5.

FIG. 4.



Witnesses:
John E. Parker
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Inventor:
Daniel Zeigler
by his Attorneys:
Hewson & Co.

UNITED STATES PATENT OFFICE.

DANIEL ZEIGLER, OF LEWISTOWN, PENNSYLVANIA, ASSIGNOR OF ONE-HALF
TO CHARLES A. ZERBE, OF SAME PLACE.

CAR-COUPLING.

SPECIFICATION forming part of Letters Patent No. 346,881, dated August 3, 1886.

Application filed January 11, 1886. Serial No. 188,218 (No model.)

To all whom it may concern:

Be it known that I, DANIEL ZEIGLER, a citizen of the United States, residing at Lewistown, Pennsylvania, have invented certain
5 Improvements in Car-Couplings, of which the following is a specification.

My invention relates to improvements in the construction of automatic car-couplings, as fully described hereinafter.

10 In the accompanying drawings, Figure 1 is a perspective view of my improvement, showing the two draw-heads coupled. Fig. 2 is a sectional plan of the same, showing the two heads uncoupled. Fig. 3 is a sectional plan showing the two heads coupled,
15 and Figs. 4 and 5 are detached perspective views of parts of one of the coupling-heads.

The two draw-heads A A' are counterparts of each other, and each has two arms, *a* *b*,
20 leaving a U-shaped recess between them for the reception of the arm *b* of the opposite draw-head. The arm *a* is hollow for the reception of the pivoted retaining-block D, and I prefer to make the arm of the rounded box-
25 like form shown in the drawings.

Pivoted to the outer end of the arm *a*, at *a'*, is a block, D, having two arms, *d* *d'*, which thus form a U-shaped recess for the reception of an operating-cam, *f*. The arm *d* engages, when moved outward, with the enlarged projection *b'* on the arm *b*. A spring, *e*, bears against the arm *d'* of the block D, tending to keep the arm *d* out and in position to couple with the opposing draw-head, or when
35 coupled to keep the arm *d* up against the arm *b*, as shown in Fig. 3. A shaft, F, passes through the hollow arm *a* and between the two arms *d* *d'* of the block D, and has its bearings in the upper and lower covers of the said arm *a*. This shaft F has secured to it
40 the cam *f*, occupying a position within the recess of the block D, and a handle, *f'*, is provided on the top of the arm *a*, within easy reach of the operator, for the manipulation of
45 the cam-lever to throw the catch-block D back against the action of the spring *e*, to release the opposite draw-head.

When the coupling-heads are in the position shown in Fig. 2 and are brought to-

gether, the arm *b* of the draw-head forces the
50 block D of the draw-head A' back; but as soon as the projection *b'* of the arm passes the inner end of the block the block springs back of the projection *b'*, thus coupling the two
heads.

55 The shaft F of the coupling-head A, if in the position shown in Fig. 2, can be turned as shown in Fig. 3, releasing the block D, and allowing it to spring back of the projection *b'* of the draw-head A', as shown in Fig.
60 3. When it is desired to uncouple, one or other of the cam-shafts is turned to throw the catch-block D back to the position illustrated at the left of Fig. 2, to free the arm
b of the opposite draw-head. If the coupling-
65 block is to be locked in the closed position, the shaft F is turned so that its cam *f* occupies the position shown by dotted lines in Fig. 2.

Each enlargement *b'* is slotted, as shown in
70 Fig. 2, for the reception of an ordinary link, and a pin, *x*, Fig. 1, can be inserted through the hole *y* in the projections when an opposing coupling is of the common link pattern.

I claim as my invention—

75 1. The combination of the draw-head having two projecting arms, a coupling-block pivoted to one of said arms, a spring acting on said block to project the same, and a cam-lever acting upon the block to retract it, all
80 substantially as specified.

2. The combination of the draw-head having two projecting arms, a coupling-block pivoted to one of said arms, a spring acting on said block to project the same, and a cam-
85 lever acting upon the block to retract it, and constructed to retain the block in its retracted position, all substantially as specified.

3. The combination of a draw-head having two arms, a coupling-block pivoted to one of
90 said arms, a spring for projecting said block, and a cam-lever, the cam-head of which is contained in a recess in the block, whereby it serves to retract said block and to lock it in both the retracted and projected positions, all
95 substantially as specified.

4. The combination of draw-heads, each having a projecting arm, *b*, with rounded

head, and a chambered arm, *a*, coupling-blocks pivoted to said chambered arms and engaging with the rounded heads of the arms *b*, springs for projecting the blocks, and devices
5 for retracting the same, all substantially as specified.

In testimony whereof I have signed my name

to this specification in the presence of two subscribing witnesses.

DANIEL ZEIGLER.

Witnesses:

J. T. McCLURE,
H. J. FOSNOT.