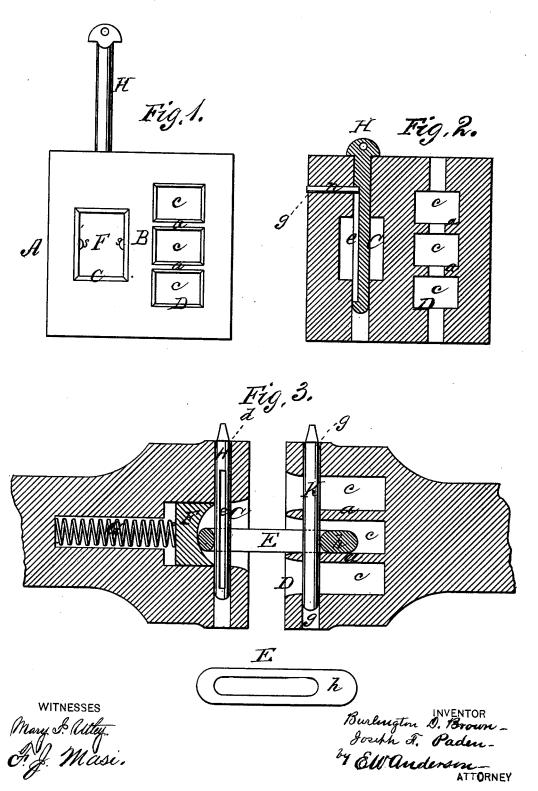
B. D. BROWN & J. F. PADEN. Car-Coupling.

No. 206,769.

Patented Aug. 6, 1878.



UNITED STATES PATENT OFFICE.

BURLINGTON D. BROWN AND JOSEPH F. PADEN, OF SHAMROCK, MISSOURI.

IMPROVEMENT IN CAR-COUPLINGS.

Specification forming part of Letters Patent No. 206,769, dated August 6, 1878; application filed May 4, 1878.

To all whom it may concern:

Be it known that we, BURLINGTON D. BROWN and JOSEPH F. PADEN, of Shamrock, in the county of Callaway and State of Missouri, have invented a new and valuable Improvement in Car-Couplings; and we 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 representation of a front view of the draw-head. Fig. 2 is a vertical transverse section thereof; and Fig. 3 is a longitudinal vertical section of the

coupled draw-head.

This invention has relation to automatic car-couplers; and it consists in the construction and novel arrangement of the lateral compartments of the mouth of the draw-head, one of said compartments being of large capacity and provided with a spring-slide with concave face to set the pin, and the other compartment being subdivided by horizontal partitions into three directing-sockets of small vertical aperture to hold the link, which is constructed with an elongated end to extend back into the small directing-socket, and is, by the engagement of said end with the approximating upper wall of said socket, held in a horizontal position, as hereinafter shown and described.

The object of this invention is to provide an automatic car-coupler which is adapted to

cars of different heights.

In the accompanying drawings, the letter A designates the bumper or draw-head, having the usual external form. Its mouth is divided by a central vertical partition, B, into two lateral sections, C and D, whereof the lat-ter section is subdivided by horizontal partitions a into sockets c of different heights, as shown in the drawings.

The former compartment, C, is the couplingmouth of the draw-head, and is designed to receive the link E when the bumpers come to-

ment is arranged a slide, F, which is pushed forward by means of an elastic coil or spring, G. The front face of this slide-block F is made concave from top to bottom, to centralize the when the link is out the slide F is advanced by the spring sufficiently to close the lower end of the perforation d in the top of the draw-head, through which the coupling-pin H passes, and serves to support or set the latter to fall through the link when it presses the slide back. The side of the coupling-pin H is grooved longitudinally, as indicated at e, to receive the end of a small transverse stop-pin, n, which is passed through the draw-head from the outside, as shown in the drawings, a perforation, g, being made in the draw-head for this purpose.

The sockets c of the other lateral compartment have sufficient vertical depth to receive the end of the link E, which is elongated, as shown at h, so as to give it sufficient inward extension to set its projecting portion horizontally true. The link is held in either socket, according to the height of the opposite linkmouth, by means of the pin K, which passes through perforations k in the wall of the draw-

head and the horizontal partitions.

In order to prevent the slide F from coming out of the mouth of the draw-head, stops s are set in the side walls of said mouth. These may be made removable, if desired, so that the slide can be taken out when necessary.

In a pair of draw-heads of this character it is evident that in the opposite draw-heads similar lateral compartments are arranged on opposite sides, and a link fixed in the directing-socket of either head will therefore enter the link-mouth of the other if it is set at the proper height.

Four pins are used in a pair of draw-heads, two of them being connected with the drawheads to prevent removal, as above described.

Having described this invention, what we claim, and desire to secure by Letters Patent,

In a draw-head having a central partition, gether. In the back portion of this compart- B, on one side a receiving mouth of large 2 206,769

size, provided with a setting-slide for the pin, and lateral stops s, and on the other side a setting-mouth having horizontal partitions dividing it into directing-sockets c of small vertical depth, one above the other, for the link, which has an elongated end to extend back into the directing-socket, substantially as specified.

In testimony that we claim the above we have hereunto subscribed our names in the presence of two witnesses.

B. D. BROWN. J. F. PADEN.

Witnesses:

J. P. Paden, S. S. Norris.