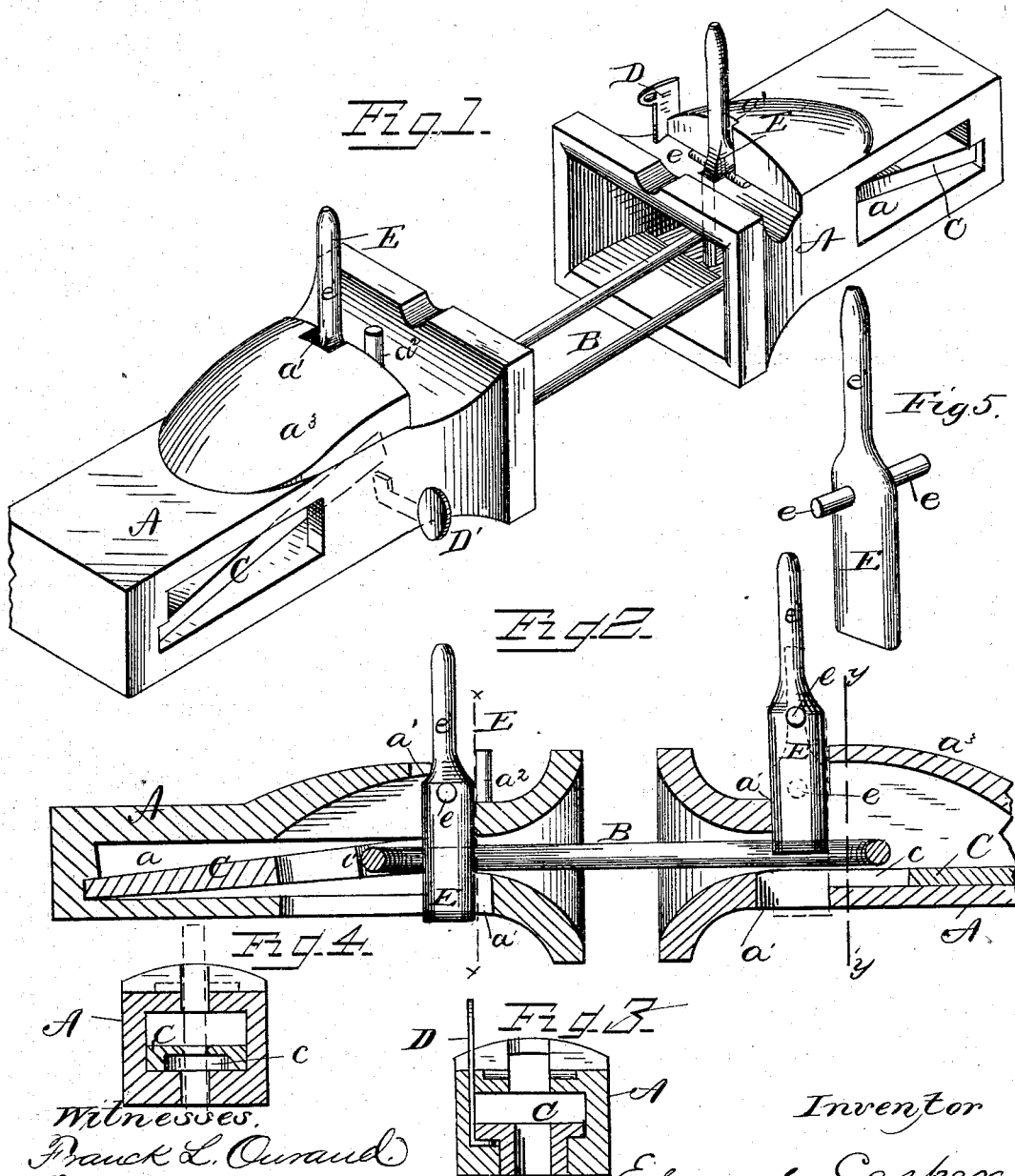


(No Model.)

E. CASPER.  
CAR COUPLING.

No. 263,653.

Patented Aug. 29, 1882.



Witnesses,  
Frank L. Curand.  
George Coxell

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# UNITED STATES PATENT OFFICE.

EDWARD CASPER, OF COLLOMSVILLE, PENNSYLVANIA.

## CAR-COUPLING.

SPECIFICATION forming part of Letters Patent No. 263,653, dated August 29, 1882.

Application filed June 19, 1882. (No model.)

*To all whom it may concern:*

Be it known that I, EDWARD CASPER, a citizen of the United States, residing at Col-  
lomsville, in the county of Lycoming and State  
5 of Pennsylvania, have invented certain new  
and useful Improvements in Car-Couplings;  
and I do hereby declare the following to be a  
full, clear, and exact description of the in-  
vention, such as will enable others skilled in  
10 the art to which it appertains to make and use  
the same, reference being had to the accompa-  
nying drawings, and to letters or figures of  
reference marked thereon, which form a part  
of this specification.

15 Figure 1 is a perspective view of this inven-  
tion, but showing the stop raised in both  
draw-heads, and also both forms of the lifting  
device. Fig. 2 is a longitudinal central sec-  
tion of Fig. 1, but showing the link as in ordi-  
20 nary position in use. Fig. 3 is a cross-sec-  
tion on line *y y*, Fig. 2, to show construction  
of the stop; Fig. 4, details of stop on line *x x*,  
Fig. 2; Fig. 5, detail of coupling-pin.

This invention belongs to that class of de-  
25 vices known as "railroad-car couplings;" and  
the novelty consists in the special details of  
the construction and arrangement of the sev-  
eral parts, all as will now be more fully and in  
detail set out and explained.

30 In the accompanying drawings, A denotes  
any ordinary draw-head, and B the coupling-  
link. Inside of each draw-head is the stop C,  
which is a flat piece of wood or metal of suit-  
able shape and size to fit on the bottom of  
35 the chamber *a* of the draw-head. It is so fit-  
ted at the back side by hinging or otherwise  
that it can have motion on this end. The  
front part extends forward near to the mouth  
of the draw-head. Here it is cut out, as indi-  
40 cated at *c*. By this construction, when the  
stop is raised, as by lifting piece D or lever  
D', it will offer at *c* a suitable stop and sup-  
port for the end of the link C, as is shown in  
Fig. 2. When the link is thus in position it  
45 is secured there by the coupling-pin E. This  
pin fits loosely in the socket *a'* in the top and  
near the mouth, and in such a manner that  
when the link B rests in the chambered or  
grooved end *c* of the stop there is just space  
50 enough for the pin to drop through the end of  
the link. This pin has an upwardly-project-  
ing part, *e'*, which can be used as a handle.  
In this position the link is ready for entering  
the mouth of the draw-head of the car which

is to be coupled on, and has sufficiently free 55  
movement to enter any-sized draw-head. This  
pin has free swinging motion to the rear in-  
side of *a* when not fixed, as above, on the sup-  
porting-journals *e*, about midway of its length,  
which rest in suitable seats in the top of the 60  
draw-head, so that when the link is held in  
one draw-head, as has been above described,  
it will readily enter the mouth of the draw-  
head of the other car, knocking back and up  
the pin as it enters the mouth, so that the pin 65  
is turned up against the inside of the arch *a'*  
and allows free passage for the link to enter  
the draw-head, and when the link is in the pin  
drops easily into the end of the link. In this  
way, which is that of ordinary use, and as 70  
now shown in Fig. 2, one end of the link has  
some motion inside the draw-head. The lower  
end of the pin E, being stopped by the for-  
ward edge of *a'* on the lower side of the mouth,  
can have no forward movement. 75

If desired, there may be some guide-pins *a*<sup>2</sup>  
on the outer side of slot *a'*. Connection may  
be arranged from the lifting devices D or D'  
to the top of the car, so that the brakeman  
can easily manipulate this pin, as for unshack- 80  
ling.

This device can be very cheaply made, and  
the several parts are all peculiarly strong and  
not at all liable to get out of order in any or-  
85 dinary use, while for all the conditions de-  
manded in such a device this coupler is very  
effective and certain in its operation.

Having thus described my invention, what I  
consider new, and desire to secure by Letters  
Patent, is— 90

1. The swinging coupling-pin E, having  
journals *e* and handle *e'*, combined with draw-  
head A, having socket *a'* and arched chamber  
*a*<sup>2</sup>, substantially in the manner shown and de-  
scribed. 95

2. The draw-head A, having arched top *a*<sup>2</sup>,  
socket *a'*, and chamber *a*, combined with the  
stop C on the floor of said chamber, hinged  
or jointed at its rear end and having the  
groove or chamber *c* at its front end, and mov- 100  
able by a lift and pin, E, substantially as  
shown and described.

In testimony whereof I affix my signature in  
presence of two witnesses.

EDWARD CASPER.

Witnesses:

THOMAS W. LLOYD,  
JOHN G. READING, Jr.