

(No Model.)

J. CAMERON.
CAR COUPLING.

No. 366,713.

Patented July 19, 1887.

Fig. 1.

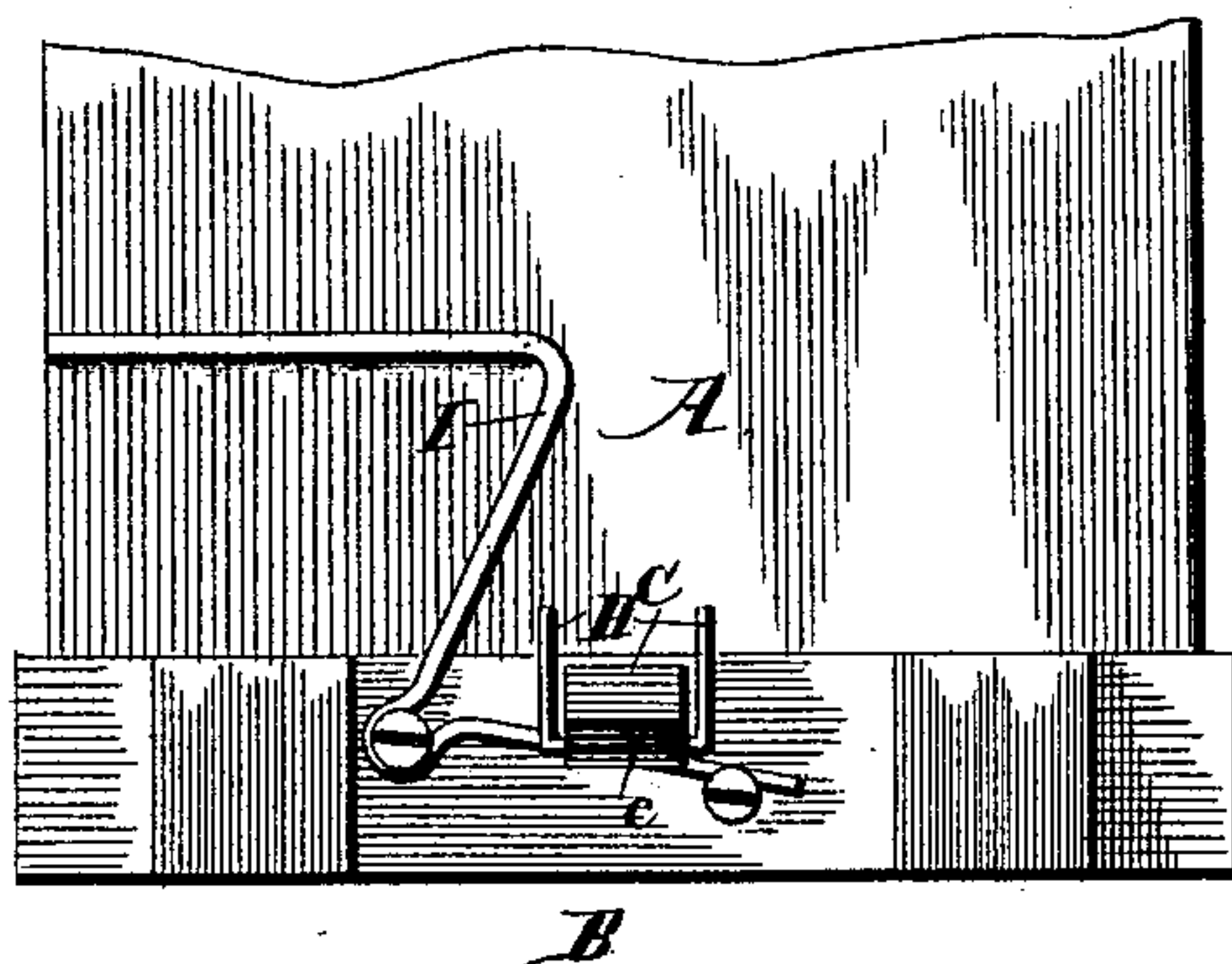


Fig. 2.

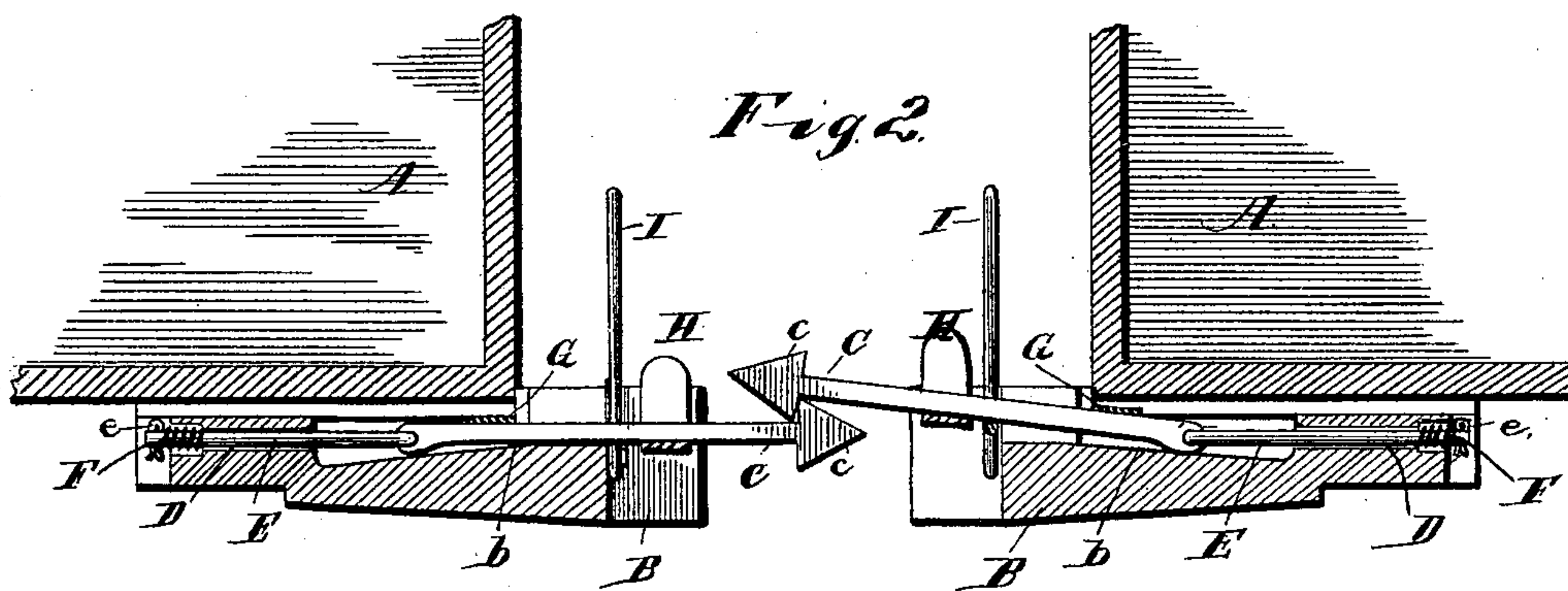
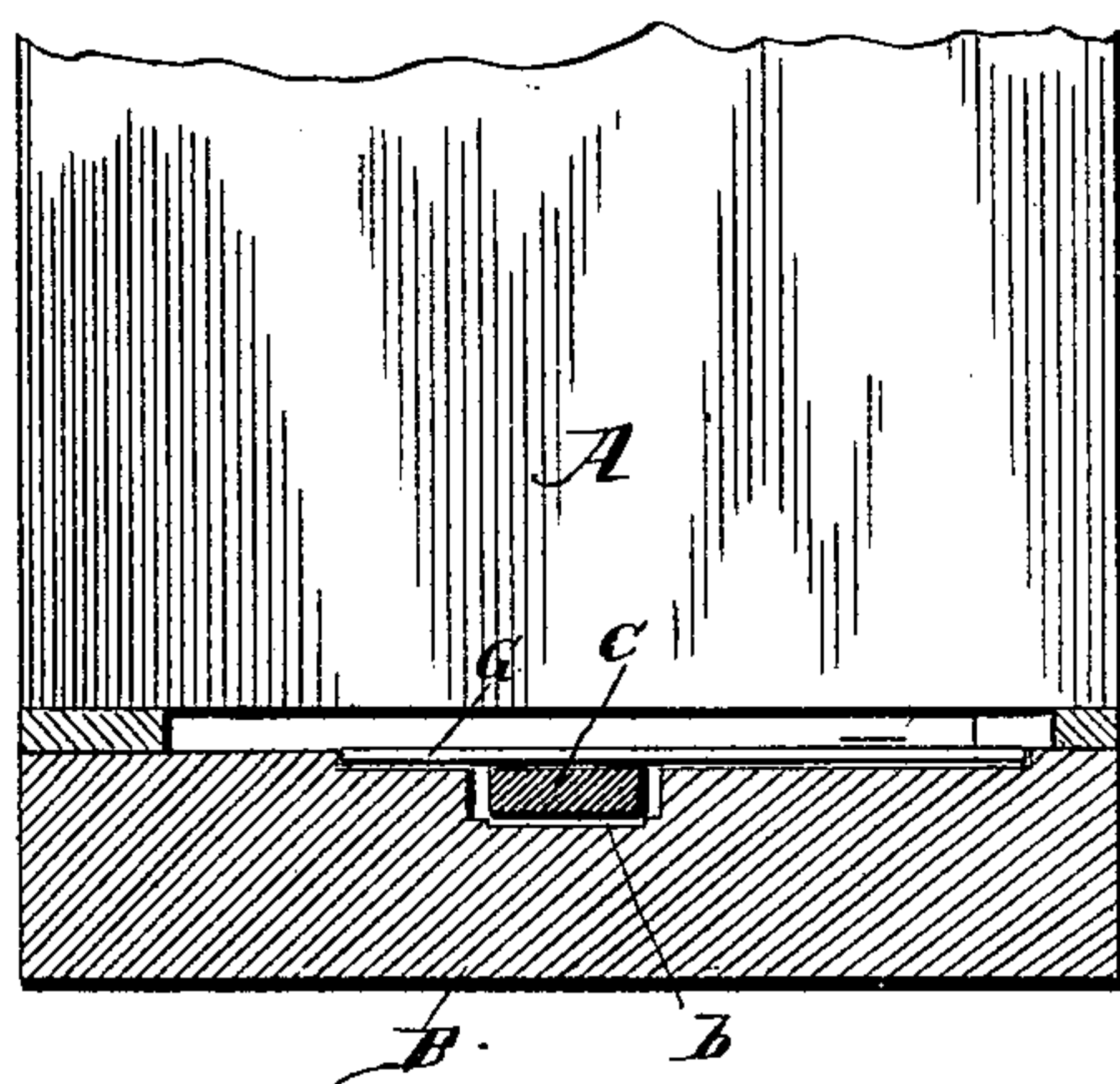


Fig. 3.



Witnesses
Geo. Thayer

R. H. Bishop

Inventor

Jordan Cameron

By his Attorneys,

C. H. Howells

UNITED STATES PATENT OFFICE.

JORDAN CAMERON, OF PENN RUN, PENNSYLVANIA.

CAR-COUPLING.

SPECIFICATION forming part of Letters Patent No. 366,713, dated July 19, 1887.

Application filed May 2, 1887. Serial No. 236,835. (No model.)

To all whom it may concern:

Be it known that I, JORDAN CAMERON, a citizen of the United States, residing at Penn Run, in the county of Indiana and State of Pennsylvania, have invented a new and useful Improvement in Car-Couplings, of which the following is a specification.

My invention is an improvement in car-couplings; and it consists in certain novel features, hereinafter described and claimed.

In the accompanying drawings, which fully illustrate my invention, Figure 1 is an end elevation of a portion of a car provided with my improved coupling. Fig. 2 is a longitudinal vertical section showing two cars coupled, and Fig. 3 is a vertical transverse section.

Referring to the drawings by letter, A designates the end of a car, and B the coupling-supporting block secured to the bottom of the same. This coupling-supporting block is provided in its upper side with the longitudinal recess *b*, and the arrow-head coupling-link C works in the said recess. This recess does not extend to the rear side or edge of the block B, but terminates at a point in advance of the same. A slot, D, extends from the rear end of the recess to the rear edge of the block, and a link, E, plays in this slot. The forward end of the link E engages the rear end of the coupling-link, and its rear end is provided with a stop, *e*, between which and the rear side of the block B a spring, F, is coiled around the said link E. This coiled spring serves to hold the coupling-link against withdrawal, and at the same time allows it sufficient play to operate easily and readily.

In order to hold the coupling-link in the recess, I provide a strong leaf-spring, G, which is secured at one end to the upper side of the coupling-supporting block and to one side of the coupling-link. From its fixed end this leaf-spring G extends transversely over the coupling-link and bears on the upper side of the same. The barbs *c* of the arrow-head of the coupling-link are arranged on the upper and lower sides of the link, and to prevent lat-

eral play of the links upon one another, and the consequent uncoupling of the cars, I secure to each link, just in rear of the arrow-head, a U-shaped guard, H, the arms of which extend up on the opposite sides of the link, as clearly shown.

I designate an angle-lever pivoted on the end of the coupling-supporting block, and having its shorter arm bearing against the under side of the coupling-link, and its longer arm extending upward and serving as an operating-handle.

The operation of my coupling is obvious. As the cars come together one of the links will ride up over the other, and the barbs of the two arrow-heads will engage, as shown in Fig. 2. When it is desired to uncouple, the lever I is turned so as to raise the upper coupling, thereby disengaging the links, as will be readily understood.

It will thus be seen that I have provided a coupling which is simple in construction and efficient and automatic in operation, and which obviates the necessity of the brakeman going between the cars.

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

1. In a car-coupling, an arrow-head coupling-link having a U-shaped guard secured thereto in rear of the arrow-head, substantially as set forth.

2. The combination, with the car, of the supporting block secured to the under side of the car, the link working in said block, and a bent lever pivoted on the end of the car and having one arm extending under the link and bearing against the under side of the same, substantially as specified.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

JORDAN CAMERON.

Witnesses:

S. J. TELFORD,

JNO. R. CALDWELL.