

(No Model.)

P. CUNNINGHAM.

COMBINED CARRYING BOX AND FIRING CHUTE FOR ROCKETS.

No. 455,279.

Patented June 30, 1891.

Fig. 1.

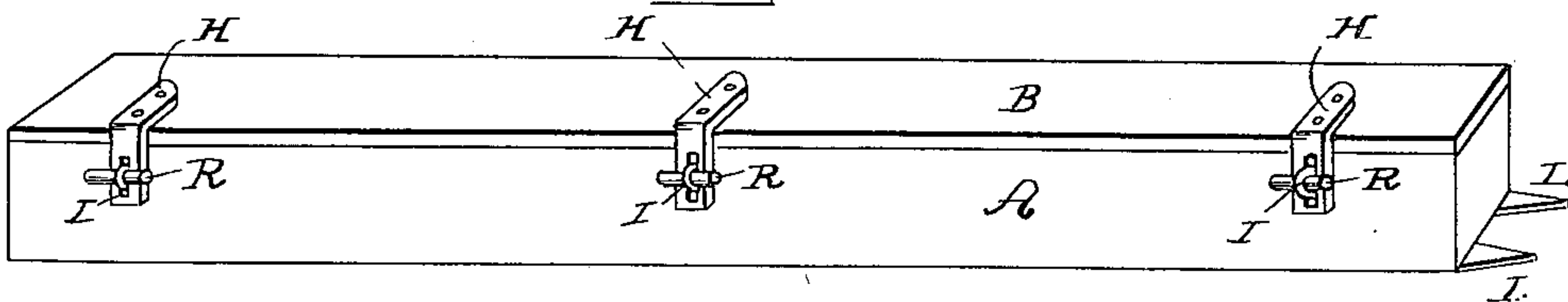


Fig. 2.

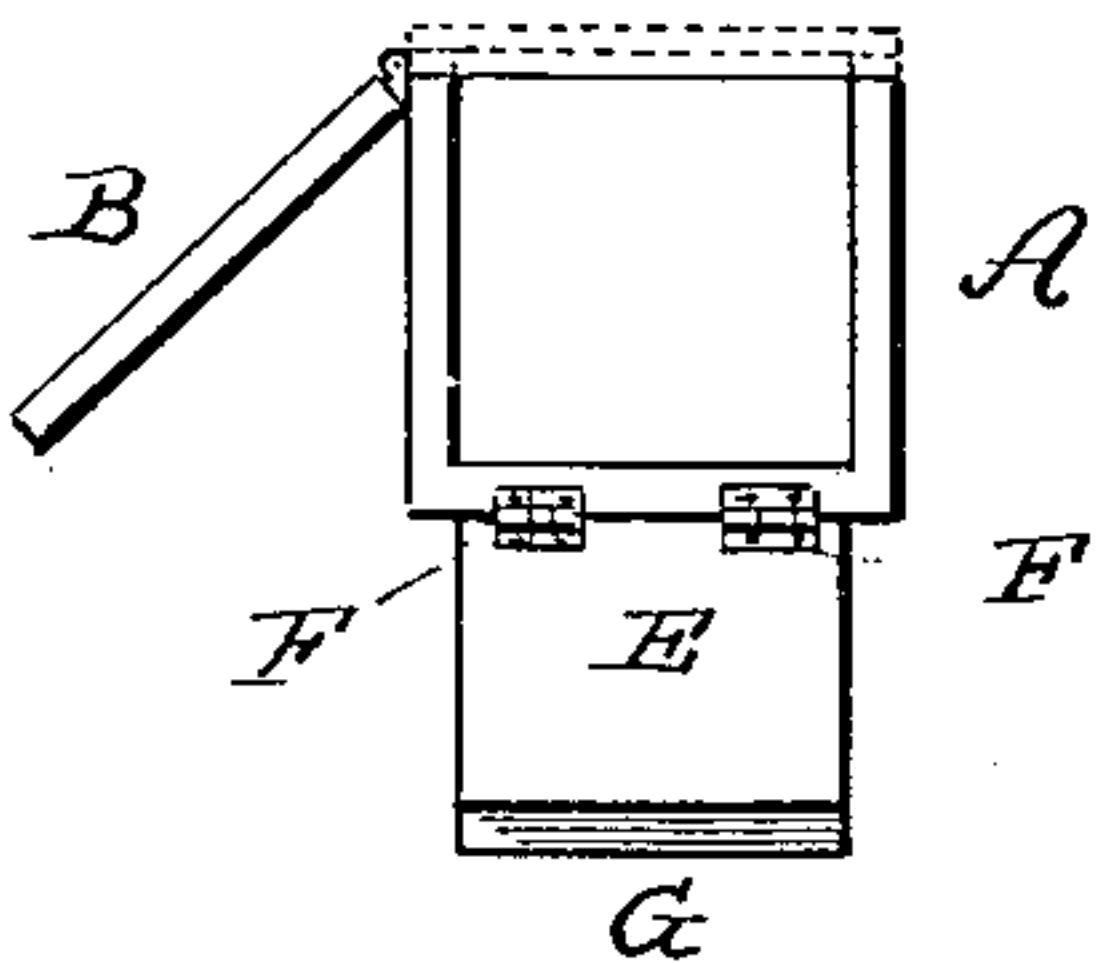


Fig. 3.

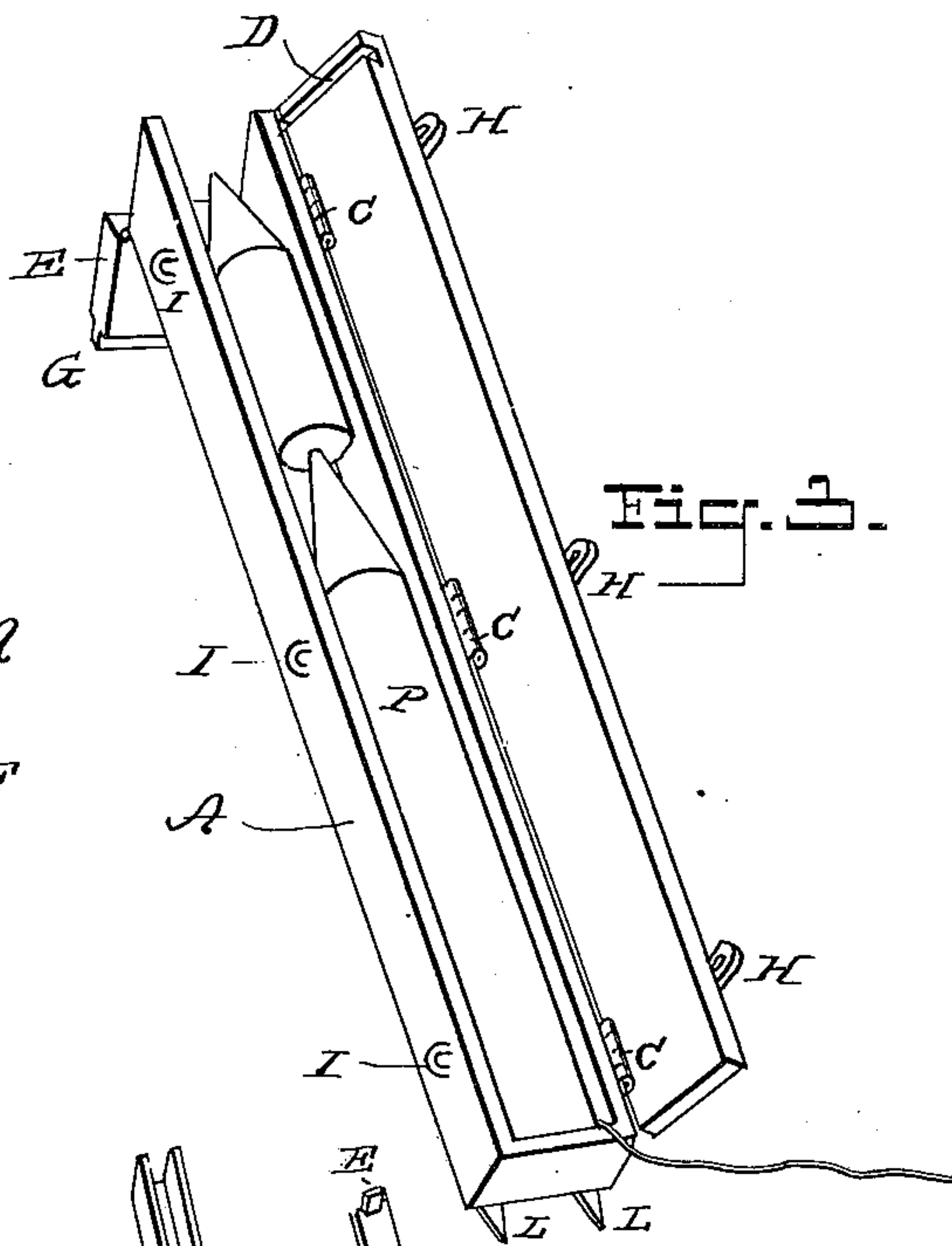
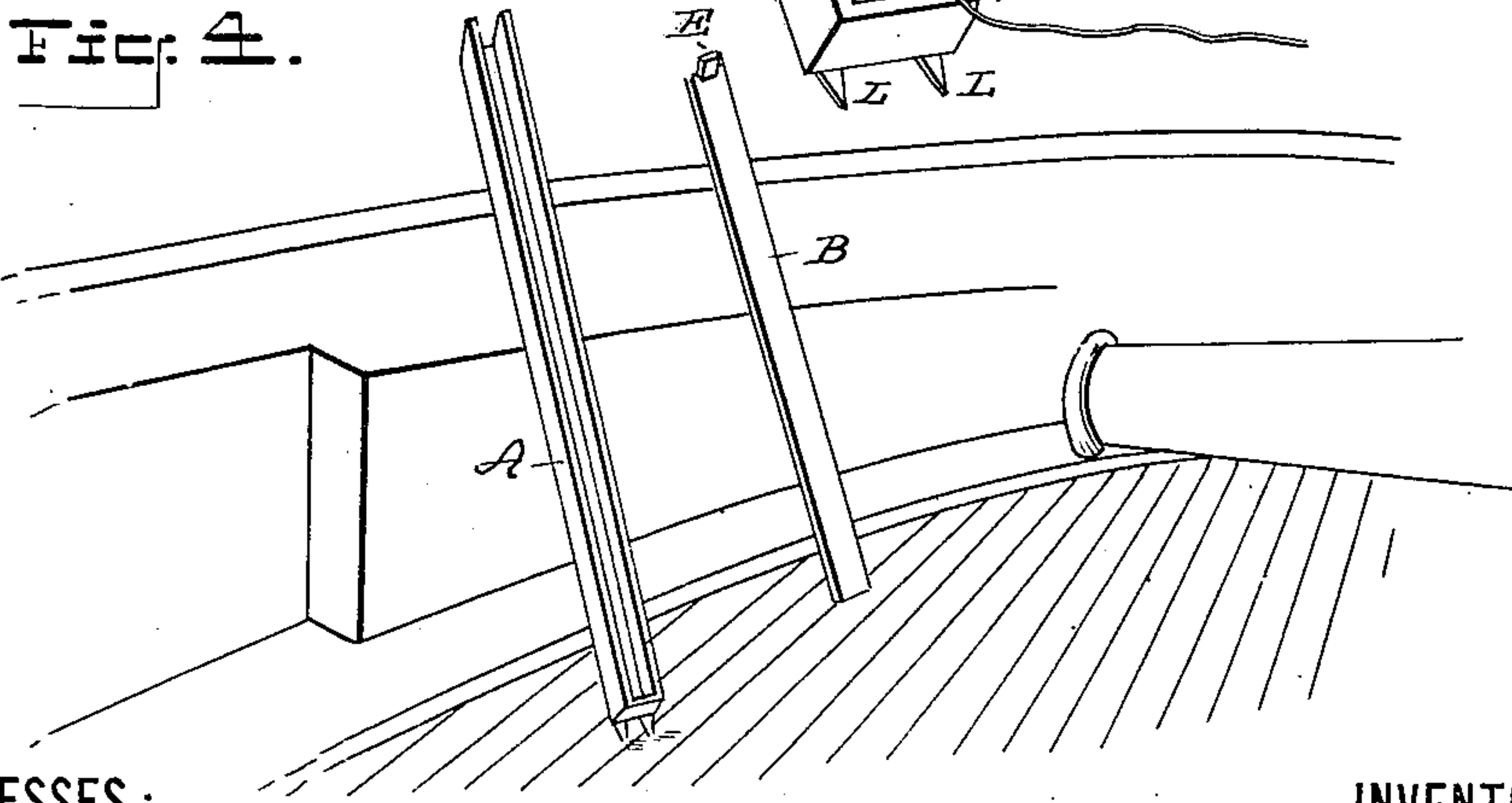


Fig. 4.



WITNESSES:

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PATRICK CUNNINGHAM, OF NEW BEDFORD, MASSACHUSETTS, ASSIGNOR TO
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COMBINED CARRYING-BOX AND FIRING-CHUTE FOR ROCKETS.

SPECIFICATION forming part of Letters Patent No. 455,279, dated June 30, 1891.

Application filed November 5, 1889. Serial No. 329,321. (No model.)

To all whom it may concern:

Be it known that I, PATRICK CUNNINGHAM, a citizen of the United States, and a resident of New Bedford, in the county of Bristol and State of Massachusetts, have invented certain new and useful Improvements in Combined Carrying-Boxes and Firing-Chutes for Rockets, of which the following is a specification.

My invention relates especially to means and devices for transporting and firing rockets, particularly for line-carrying purposes, either on shipboard or upon land, and has for its object the provision of a box or a case wherein the rocket is placed for transportation or storage, said case being adapted and arranged for instant conversion into a firing chute or guide for the rocket.

To attain the desired end my invention consists, essentially, in a box or case, of any suitable material, but preferably wood, adapted and arranged to hold a rocket. This case is provided with a cover hinged to the body of the case or made movable, without hinges or other fastenings, and also a hinged end piece; or said end piece may be without hinges or other fastenings. The extremity of the case opposite to the movable or hinged end is provided with spurs for holding the case in a secure position while the rocket is being fired; and my invention also involves certain other novel and useful combinations or arrangements of parts and peculiarities of construction and operation, all of which will be hereinafter fully described, and then pointed out in the claims.

In the drawings, Figure 1 is a perspective view of my improved rocket-box. Fig. 2 is an end view of the same with the cover and end piece thrown back. Fig. 3 is a perspective view showing the rocket in place for firing. Fig. 4 is a perspective view showing the cover and end piece removed together from the chute.

Like letters of reference, wherever they occur, indicate corresponding parts in all the figures.

A is the body of the box.

B is the cover hinged to the body at C. The cover is provided near one extremity with a groove D.

E is an end piece hinged to the bottom of the box at F and provided at its upper edge with a tongue or fillet G, adapted and arranged to fit into the groove D in the cover.

H are hasps secured to the cover and engaging with staples I in the body of the box when the cover is closed, the hasps being held upon the staples by pins K.

L are metal spurs secured to the bottom of the box for engaging with the deck or other object upon which the box rests when the rocket is fired, holding the box against displacement.

P is a rocket resting in the box and ready to be fired.

When constructed and arranged as above described, my combined rocket-case and firing-chute will be found admirably adapted to the uses and purposes for which it is intended.

The box forms a secure case for transportation or storage, and when the rocket is required for use the box is placed in a convenient position, the pins which secure the cover knocked out, permitting the throwing back of the cover and of the end piece, when all that is necessary to be done is to attach a line to the tail of the rocket and fire the rocket, all of which requires but a few moments of time.

I have shown the cover as hinged to the side of the box and the end piece hinged to the bottom, these being the most convenient methods of arrangement; but it is obvious that the end piece might be secured to the cover and the cover hinged to the body of the box at the opposite extremity, or the cover and end might be made removable entirely, either together or separately, with or without hinges or other fastenings, without departing from the spirit of my invention.

Having now fully described my invention, what I claim as new therein, and desire to secure by Letters Patent, is—

1. A combined carrying-box and firing-chute for rockets, in which is comprised a box having the sides and one end permanently secured to the bottom, a movable end piece provided at its upper edge with a projecting tongue, and a movable cover having near one end a groove adapted and arranged to receive

said tongue when the cover is in position on the box, substantially as shown and described.

2. A combined carrying-box and firing-chute for rockets, having a movable cover and end piece and spurs projecting from the bottom of the box at the end thereof for preventing the shifting of the chute when in position for firing the rocket, substantially as shown and described.

3. A combined carrying case or box and firing-chute for rockets, in which is comprised a body provided with a hinged cover bearing hasps adapted and arranged to engage with

staples fixed in the side of the box when the cover is closed, a hinged end piece held in place by the closed cover, and spurs secured to the bottom of the body of the box or case at the extremity opposite to the movable end, substantially as shown and described.

Signed at New Bedford, in the county of Bristol and State of Massachusetts, this 6th day of September, A. D. 1889.

PATRICK CUNNINGHAM.

Witnesses:

ARTHUR M. PIERCE,
S. D. MOTT.