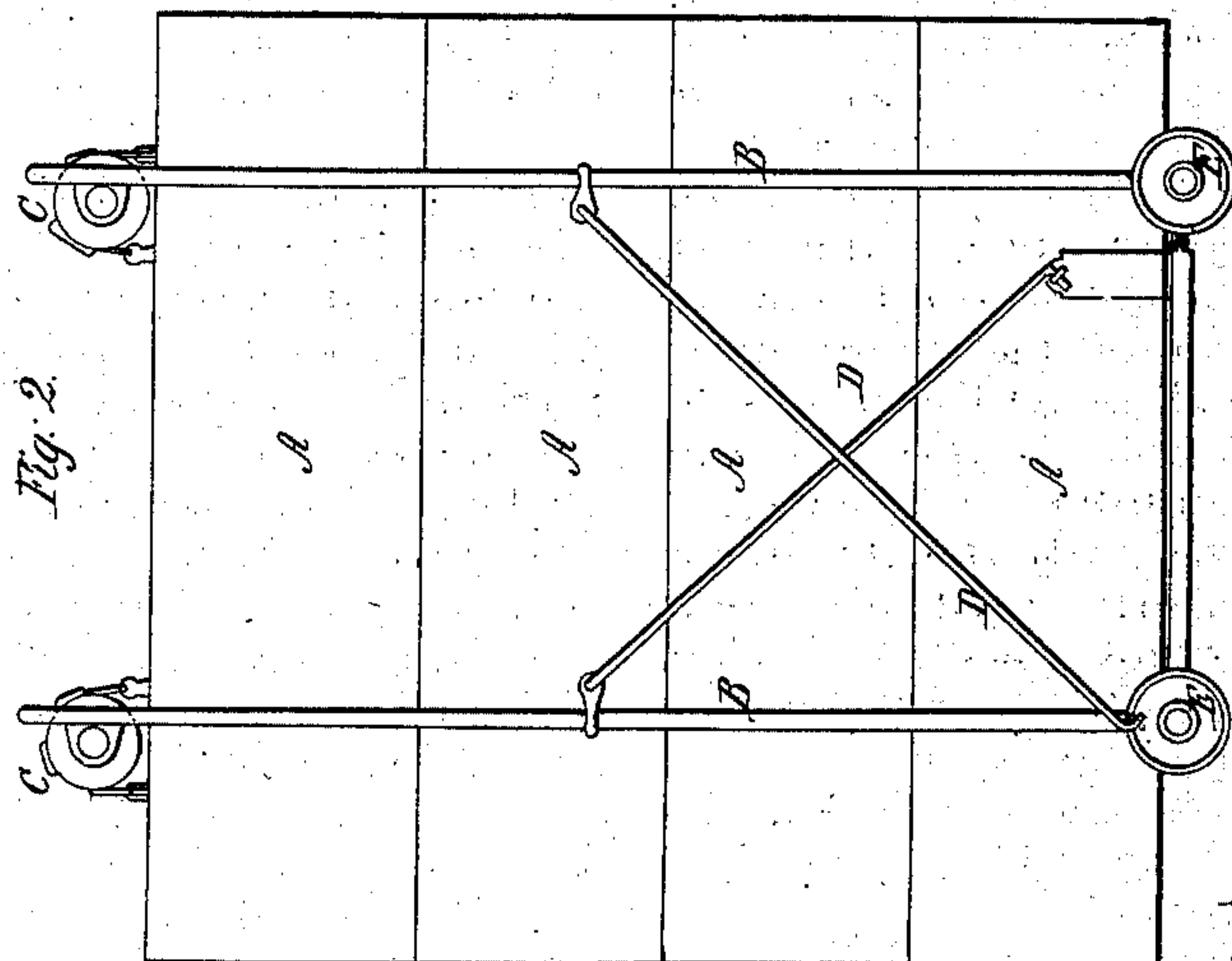
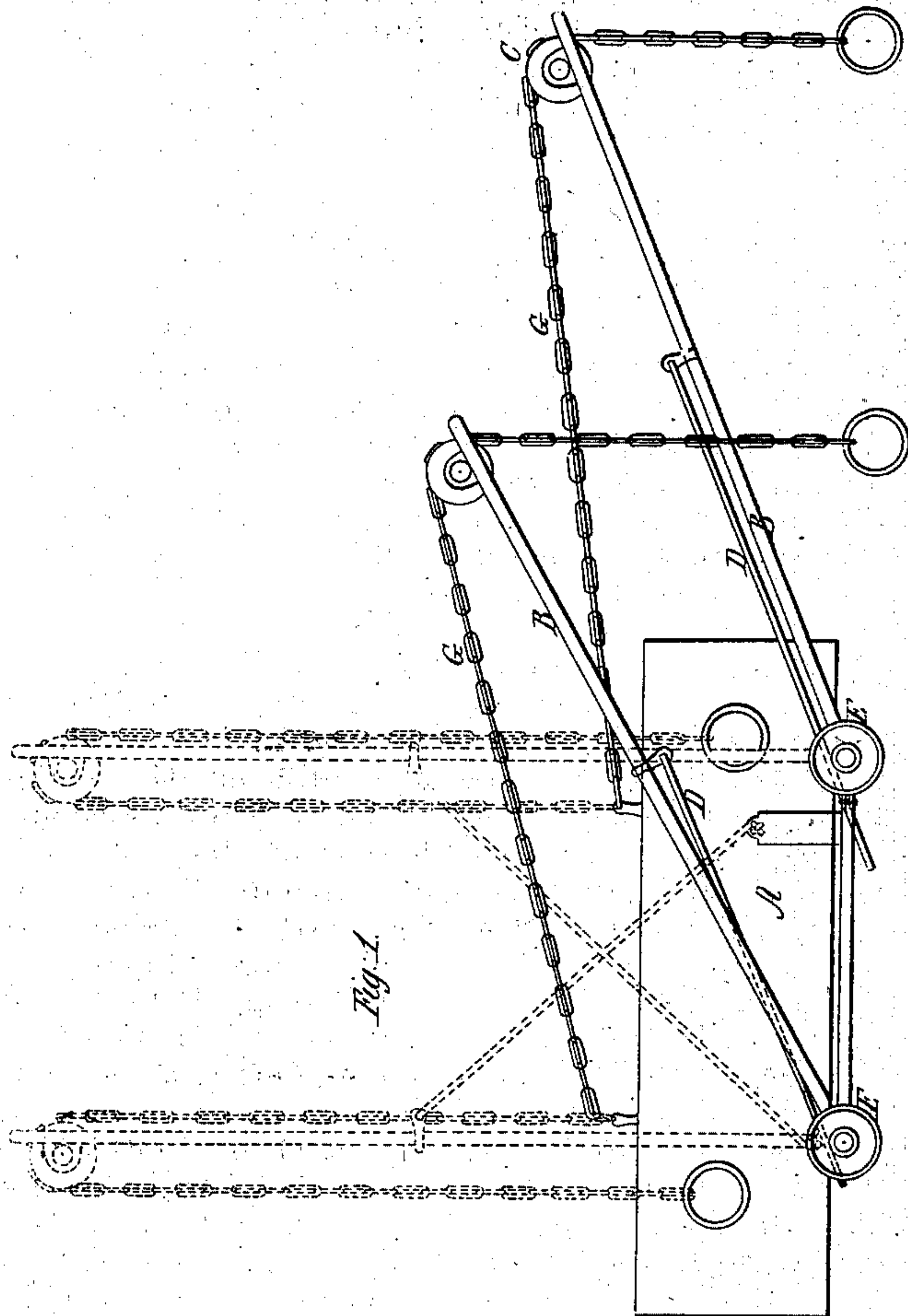


No. 60,390,

PATENTED DEC. 11, 1866,

J. LEE.
FIRE SHIELD.



Witnesses;
H. A. Dixon,
George Lee

Inventor;
Joel Lee

*The drawing in this patent
is ~~not~~ in print.*

United States Patent Office.

IMPROVED FIRE SHIELD.

JOEL LEE, OF GALESBURG, ILLINOIS.

Letters Patent No. 60,390, dated December 11, 1866.

The Schedule referred to in these Letters Patent and making part of the same.

Be it known that I, JOEL LEE, of Galesburg, county of Knox, and State of Illinois, have invented a new and useful Fire Shield; and I 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, in which—

Figure 1 is a view with the shields down.

Figure 2, with the shields up.

A A represents the shields; B, the guides and pulley-supports; C, the pulleys; D, the stay-braces; E, the wheels; F, the reach; G, the chains.

The nature of my invention consists in furnishing metallic plates of a size that can be conveniently transported on wheels or runners, and so arranged that they can be raised at pleasure, forming one large shield.

To use this shield it is mounted on wheels or runners, with the plates down on their edges, as shown in fig. 1; the guides and pulley-supports forward. The one attached to the forward axle may be used as a tongue, the other is thrown forward and assists to keep the plates in place. It is now in a condition to move to the fire. Running between the building on fire and the one most exposed, the firemen walking on the side from the fire, the plates protecting them from the heat. The guides and pulley-supports are to be raised to a perpendicular position and secured by stay-braces. The chains are passed over to the side from the fire and pulled down until the top shield is at the pulley, the plates being attached to the chain at proper distance, so that when the plates are elevated each plate still laps on to the succeeding plate. The whole forms one vast shield, which is a perfect protection so far as it extends. The chains are secured to hooks at the axle. If thought best another shield may be mounted on the same carriage, to be taken off at the fire; this should be made as light as possible, and have one runner or two wheels, which will be serviceable to put between buildings that are too close together for the main carriage to pass in, and if the heat is too intense to permit the fireman to pass, a ball attached to a chain may be thrown or rolled past the building and caught on the other side, the rear end of chain being attached to the shield, may be pulled into position, the guides and pulley-supports being raised, the chains pulled down and hooked, and the whole shield leaned against the building being protected, as there will be no room for braces and stay-chains, which would be advisable to use where there is room enough. The plates may be hinged together at their edges, and the chain attached to the top one, in lieu of each plate, successively, as represented; and as they are let loose the plates may be folded, except the top one, which should be secured on its edge to shield the fireman. Everything pertaining to the shield or carriage, to support it, must be made of metal to stand the great heat to which they will be exposed.

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

The arrangement of the pulleys C C, supports and guides B B, chains G G, and stay-braces D D, with the metallic plates A, substantially in the manner and for the purpose specified.

JOEL LEE.

Witnesses:

H. A. DIXON,
GEORGE LEE.