

(No Model.)

F. BEATTIE.
LIFTING DOG.

No. 542,230.

Patented July 9, 1895.

Fig. 3

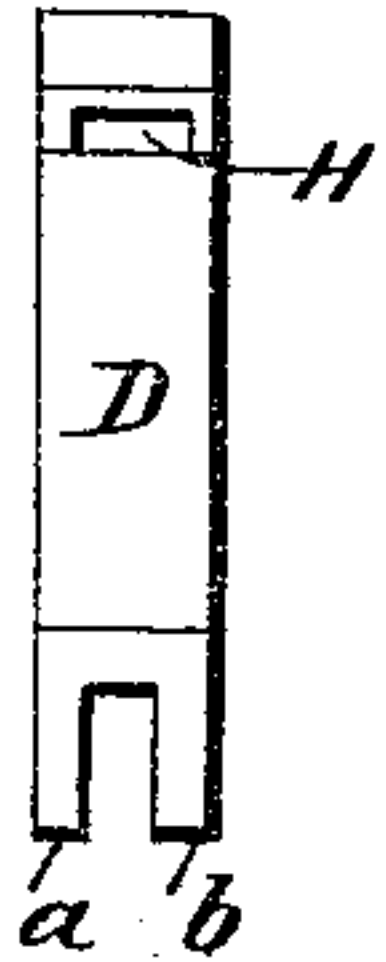


Fig. 1

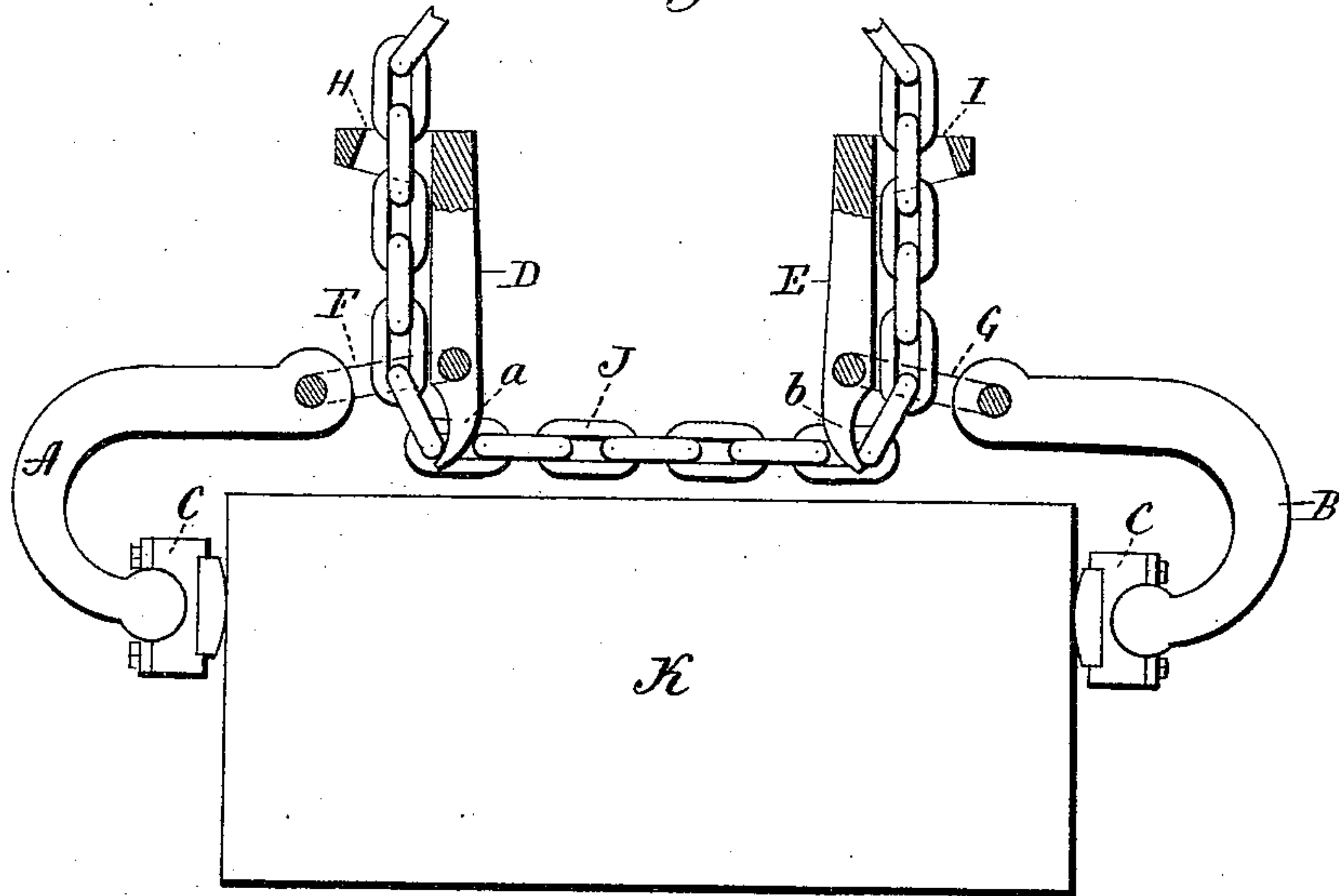
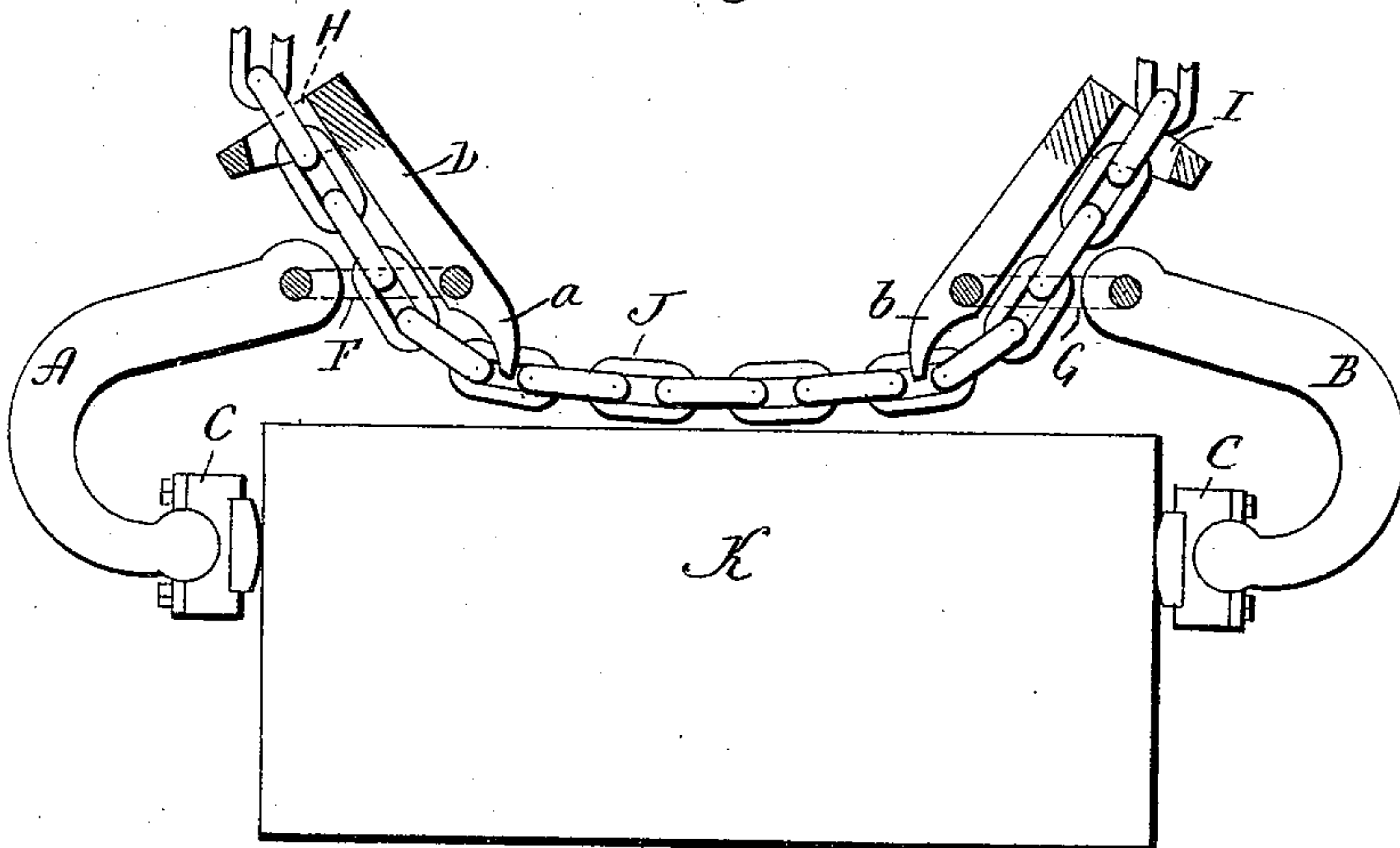


Fig. 2



Witnesses
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UNITED STATES PATENT OFFICE.

FRANK BEATTIE, OF LEETE ISLAND, CONNECTICUT.

LIFTING-DOG.

SPECIFICATION forming part of Letters Patent No. 542,230, dated July 9, 1895.

Application filed December 8, 1894. Serial No. 531,202. (No model.)

To all whom it may concern:

Be it known that I, FRANK BEATTIE, of Leete Island, in the county of New Haven and State of Connecticut, have invented a new Improvement in Lifting-Dogs, (Case A;) and I do hereby declare the following, when taken in connection with the accompanying drawings and the letters of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawings constitute part of this specification, and represent, in—

Figure 1, a side view of the apparatus as engaged with a stone and ready to raise the same; Fig. 2, a similar view of the apparatus as applied to a stone and before the raising operation takes place; Fig. 3, a rear view of one of the arms detached.

This invention relates to an improvement in lifting-dogs, particularly such as are adapted for raising blocks of stone, and is an improvement upon the device shown and described in an application for Letters Patent filed by me September 7, 1894, Serial No. 522,315, the object of this invention being to form the lower end of the arm for direct engagement with the lifting-chain; and it consists in the construction as hereinafter described, and particularly recited in the claims.

The device consists of two jaws A B, provided at their inner ends with bearing-blocks C, which are preferably swiveled to the ends of the jaws to form a universal joint. The upper ends of the jaws are connected to arms D E by links F G. The upper end of the arm D is constructed with an outwardly-projecting eye H and the arm E with a corresponding outwardly-projecting eye I. The lower ends of the arms D E, below the links F G, are reduced and bifurcated, forming fingers *a b*, which extend slightly rearward. Extending downward through the eye H, link F, and upward through the link G and eye I is a lifting-chain J, which extends upward for engagement with the raising device. (Not shown.)

In operation the jaws A B are placed on opposite sides of a stone K, and so that the blocks C rest against it, and the arms D E are

turned outward, as shown in Fig. 2. The fingers *a b* of the arms are then engaged with the links of the chain J, which form a fulcrum for them, it being understood that the chain is drawn as tightly as possible by hand. When lifting force is applied to the upper end of the chain, the said chain, passing through the eyes in the upper ends of the arms, draws said upper ends toward each other, as shown in Fig. 1, and as the lower ends of the arms are held substantially stationary by the chain the jaws, which are pivoted to the arms above the fingers, are drawn into closer contact with the stone K, which is then gripped with sufficient force to be held for raising.

This device is an improvement upon the apparatus described in the application above referred to, for the reason that the strain of the chain comes upon the upper ends of the arms and not upon the eyes H I, which simply serve to guide the chain. Again, the lower ends of the arms are in direct connection with the chain, which is more convenient in adjusting the device upon the stone.

I claim—

1. In lifting dogs, the combination with the jaws thereof, of two arms, links connecting each pair of jaws and arms, the upper ends of said arms constructed with outwardly projecting eyes, and with fingers at their lower ends below their point of connection with said jaws, a chain adapted to be engaged by the said fingers and extending upward through said eyes, substantially as described.

2. In lifting dogs, the combination with the jaws thereof, of two arms, links connecting each pair of jaws and arms, said arms constructed with fingers at their lower ends below the point of connection with said jaws, and a lifting chain adapted to be engaged by said fingers, substantially as described.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

FRANK BEATTIE.

Witnesses:

M. C. BEATTIE,
C. I. BEATTIE.