

No. 842,719.

PATENTED JAN. 29, 1907.

G. W. SMITH.
GRAPPLE.

APPLICATION FILED JUNE 16, 1906.

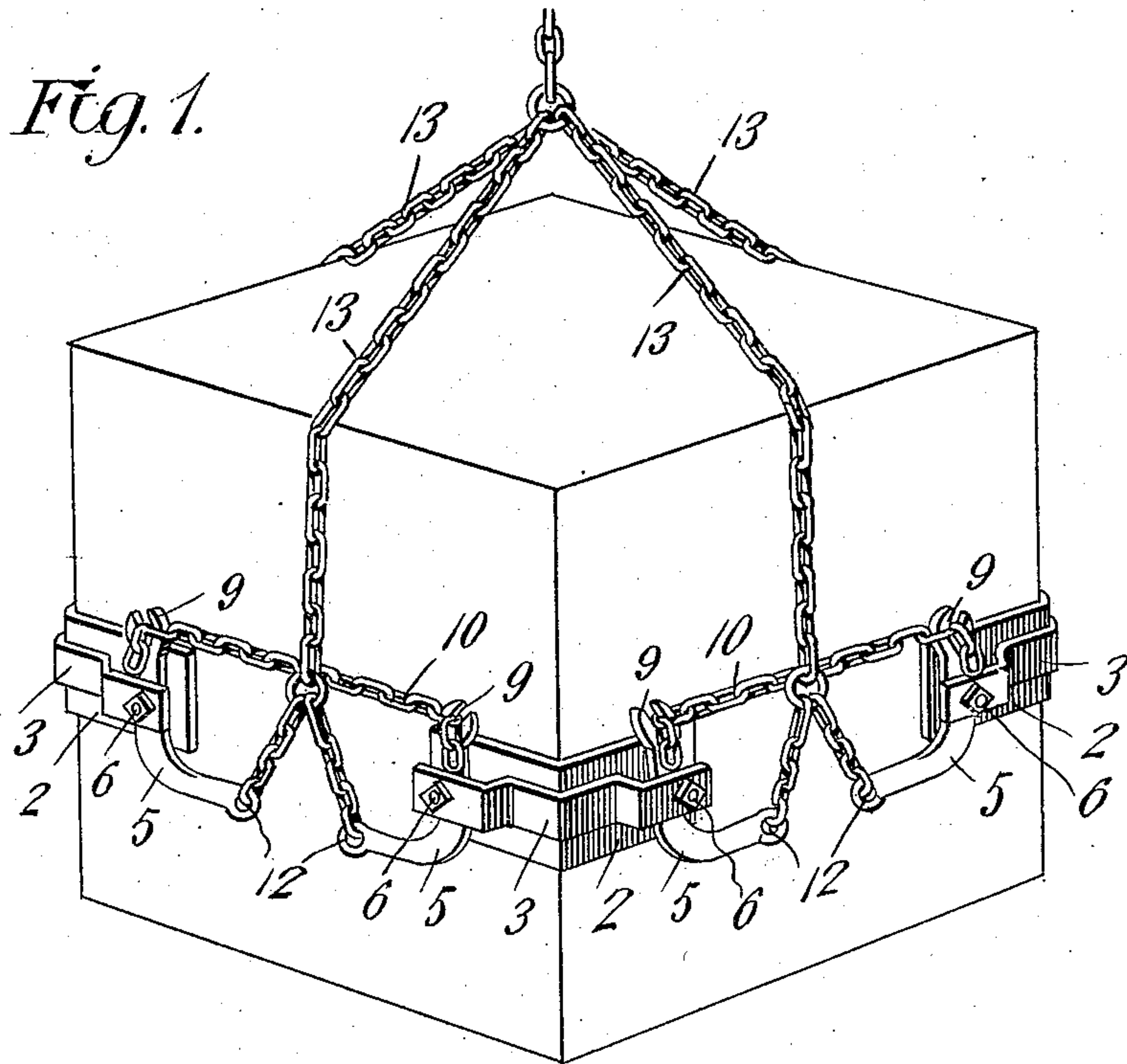
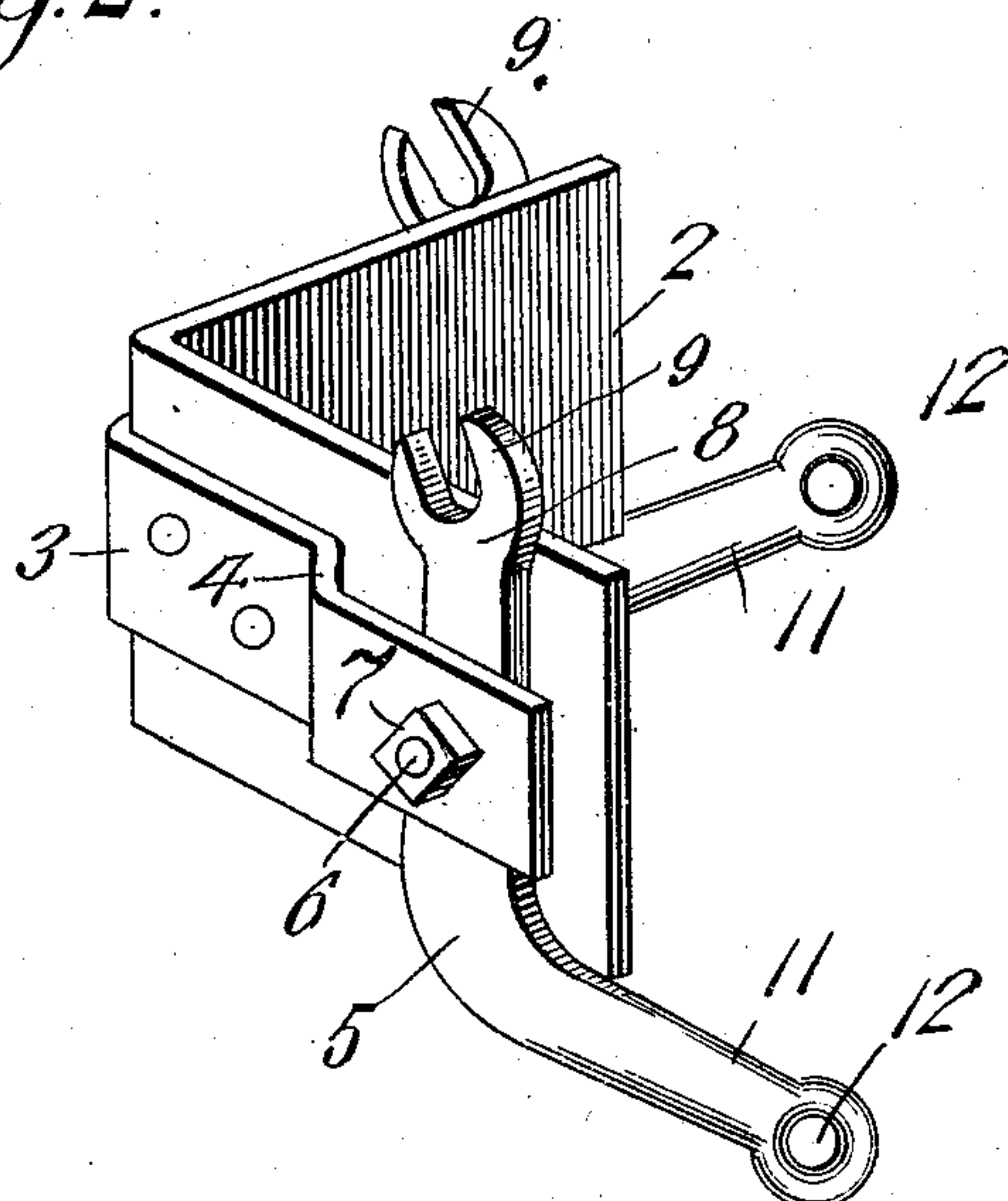


Fig. 2.



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Witnesses

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GEORGE W. SMITH, OF DALLAS, TEXAS.

GRAPPLE.

No. 842,719.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, GEORGE W. SMITH, a citizen of the United States, residing at Dallas, in the county of Dallas and State of Texas, have invented new and useful Improvements in Grapples, of which the following is a specification.

My invention relates to grapples; and its primary object is to provide a novel and highly-useful device of this character which is designed to engage a building-block in a manner to prevent injury to and its accidental disengagement from a block.

A further object of my invention is to provide a grapple which may be readily and quickly applied and removed from a building-block, one which is simple and durable, and one which may be manufactured and sold at a comparatively low cost.

With the above and other objects in view the invention consists in the construction, combination, and arrangement of parts hereinafter fully described, claimed, and illustrated in the accompanying drawings, wherein—

Figure 1 is a perspective view of a grapple constructed in accordance with my invention, the same being illustrated as applied to a building-block; and Fig. 2 is a detail perspective view of one of the corner-clamps.

Referring to the drawings by reference-numerals, 2 designates angle clamping members which are adapted to be applied to the corners of a building-block in the manner illustrated in Fig. 1 of the drawings and by means of which the block is adapted to be hoisted and set in place. Reinforcing-straps 3 are secured to the outer faces of the clamps 2 and have their ends offset, as at 4, to permit the application of elbow-levers 5 between the clamps and straps. The elbow-levers 5 are pivotally secured in applied position upon the clamps 2 by bolts 6 and nuts 7. The operating ends of the levers 5 are formed to provide jaws 9, which are adapted to engage connecting members or the links of chain-sections 10, whereby when upward pressure is applied to the power ends 11 of

said levers the clamps 2 are brought into and held firmly in engagement with the corners of a building-block. The power ends 11 of the levers 5 are perforated, as at 12, to permit chains 13 to be attached thereto. The chains 13 are suitably connected to a hoisting mechanism, and when said mechanism is operated to hoist a block an upward pressure is exerted upon the power ends of the levers 5, whereupon the corners of the clamps are brought into and held firmly in engagement with the block.

It should be apparent that in view of the manner in which the grapple is applied to the block a pressure is always exerted to firmly hold the clamps in engagement with the blocks during the hoisting of the same. It also should be apparent that the grapple will not in any manner injure the block and that in view thereof it is admirably adapted for hoisting blocks of polished marble, granite, and the like.

Having fully described and illustrated my invention, what I claim is—

1. A grapple comprising angle clamping members, levers pivotally mounted upon said clamping members, and a connecting member secured to the operating ends of the levers to cause the clamping members to be secured in position when power is applied to the levers.

2. A grapple comprising angle clamping members, straps secured to said clamping members and having their ends spaced therefrom, elbow-levers pivotally mounted upon the clamping members between the same and said spaced ends of the straps, and connecting members secured to the operating ends of said levers to cause the clamping members to be secured in position when power is applied to the levers.

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

GEORGE W. SMITH.

Witnesses:

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