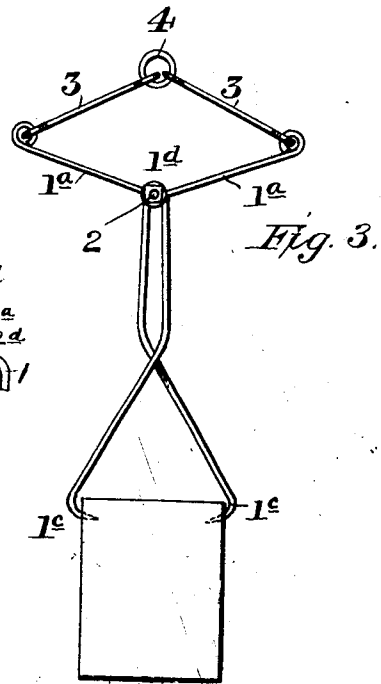
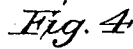
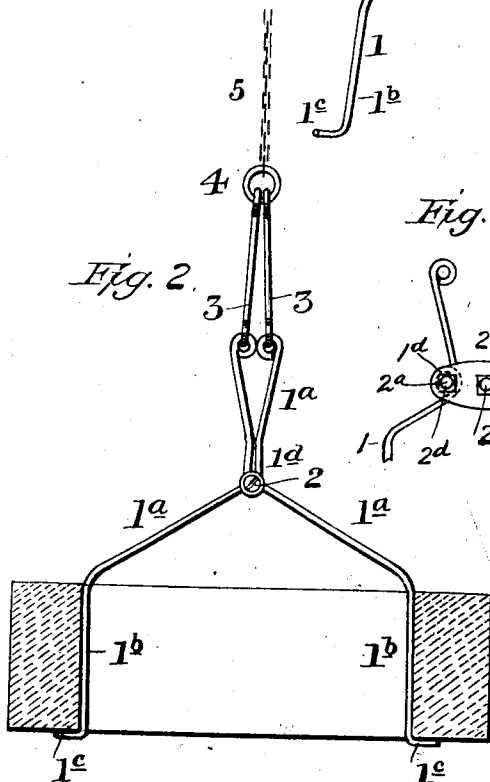
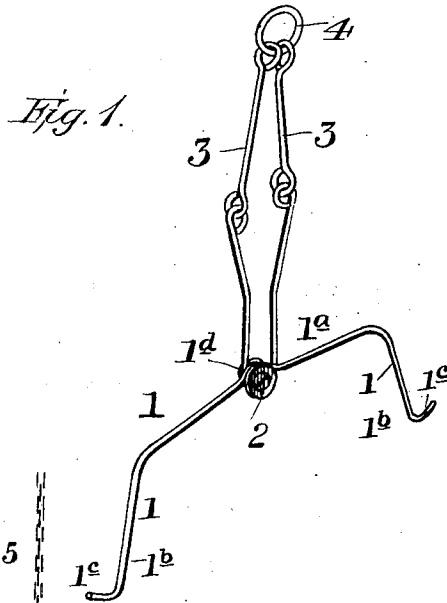


No. 823,411.

PATENTED JUNE 12, 1906.

W. J. JONES.
GRAPPLING TONGS.
APPLICATION FILED MAY 18, 1905.



Witnesses:
L. L. Barker.
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UNITED STATES PATENT OFFICE.

WILLIAM J. JONES, OF FRANKLIN, INDIANA.

GRAPPLING-TONGS.

No. 823,411.

Specification of Letters Patent.

Patented June 12, 1906.

Application filed May 18, 1905. Serial No. 281,009.

To all whom it may concern:

Be it known that I, WILLIAM J. JONES, a citizen of the United States, residing at Franklin, in the county of Johnson and State of Indiana, have invented new and useful Improvements in Grappling-Tongs, of which the following is a specification.

My invention relates to improvements in grappling devices or hooks.

It has primarily for its object to render the device effective either for application interiorly or exteriorly to the object or weight lifted or acted upon, especially as found desirable in handling certain kinds of building material as well as in general use.

Said invention consists of the detailed structural features including the combination and arrangement of the parts substantially as hereinafter fully disclosed and particularly noted.

In the accompanying drawings, illustrating the preferred embodiment of my invention, Figure 1 is a perspective view thereof, and Figs. 2 and 3 are views in elevation showing the internal application and the external application of the device to the object for lifting, respectively. Fig. 4 is a modification disclosing means for adjusting the fulcrums or pivots of the hook or jaw member laterally.

In the disclosure of the invention I provide two principal hook or jaw members 1, each having an upper outward deflected or inclined arm 1^a of requisite dimension and a lower portion or leg 1^b with an outward-extended lateral terminal 1^c, the purpose of which will be fully apparent later. Each leg 1^b has the outline substantially shown, the same being practically right-lined from its lower terminal or foot upward to a little more than half its length, whence it is inclined inward and upward to its juncture with the arm 1^a. The purpose of this construction, it will be noted, is to render the device applicable for internal use, more especially in handling building-blocks, and so as to cause the same to impinge or bear upon the end walls of the core-opening in said blocks throughout the depth of such walls, while the lower lateral terminals or feet thereof rest below and aid to carry the weight of said blocks, as shown in Fig. 2. Each jaw member is coiled or looped upon itself at the junction of its arm and leg portions so as to form an eye 1^d, the eyes of the two jaw or

hook members registering one with the other and receiving a suitably-headed and nut-equipped pivot-bolt 2, the latter being upset upon its nut to effectively interlock the same, thus providing for the connecting pivotally together of said jaw or hook members in forming the grapple. The arms 1^a of said jaw or hook members have connected to eye-ended terminals thereof eye-ended links or rods 3, the outer eye-ended terminals of the latter being themselves connected together by a common ring 4, to which is suitably attached the suspending and hoisting chain 5 in practical use.

As shown in Fig. 3, the grapple or device is also capable of external application, said jaw members in that case being crossed one over the other, permitting the points or free ends of their lateral extensions or feet to be engaged with the outer surface of the object or weight to be raised, as well understood and as generally practiced.

As illustrated by Fig. 4, instead of providing a single or common pivot for the hook or jaw members each has a separate pivot or fulcrum 2^a to provide for disposing said jaw or hook members laterally of the center thereof to accommodate the device or grapple to larger-sized blocks than would otherwise be the case or as provided for by the above-described arrangement of parts. In effecting this enlargement of the grapple opposed plate members 2^b, connected or coupled centrally together by a nut-equipped bolt 2^c, are provided for that purpose, having registering apertures therein near the ends of said plate members with nut-equipped pivot-bolts 2^d passed therethrough and through the eyes 1^d of the jaw or hook members 1 and secured in place by suitably manipulating the nuts upon said pivot-bolts.

I claim—

1. A grappling device comprising two pivoted or connected-together hook or jaw members having their point of connection constituted of eyes or loops formed therewith and arranged side by side and of a pivot inserted through said eyes or loops, said members each having an arm inclined outward and upward above said point of connection and a leg having an upward and inward-inclined portion and a practically right-lined lower portion terminated into an outward-extended horizontal portion, whereby said hook or jaw members are rendered effective either with

their lower terminals presented inward toward each other or outward away from each other for the purpose disclosed.

2. A grappling device comprising two connected-together hook or jaw members having their point of connection constituted of eyes or loops formed therewith and arranged side by side and of a pivot inserted through said eyes or loops, said members each having an arm inclined outward and upward above said point of connection and a leg having an

upward and inward inclined portion and a practically right-lined lower portion terminated into an outward-extended horizontal portion, and link members effecting connection between the upper ends of said arms. 15

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

WM. J. JONES.

Witnesses:

J. E. SMITH,

ELIHU F. BARKER.