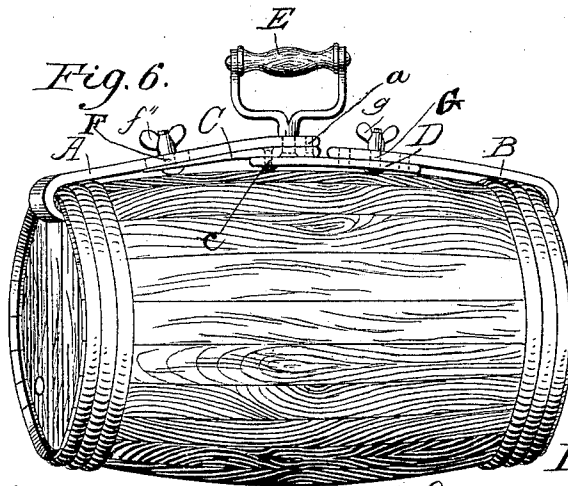
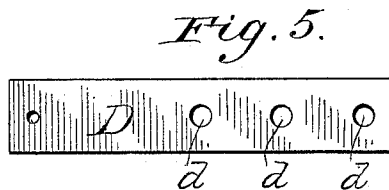
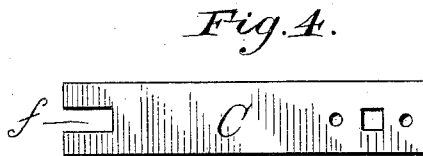
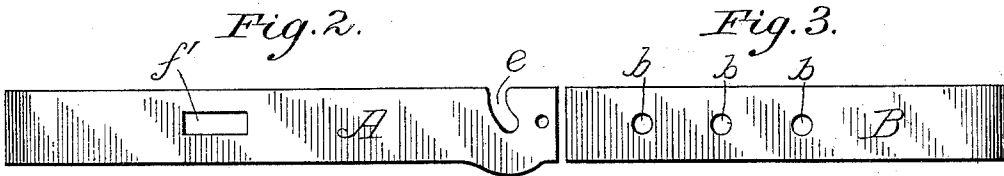
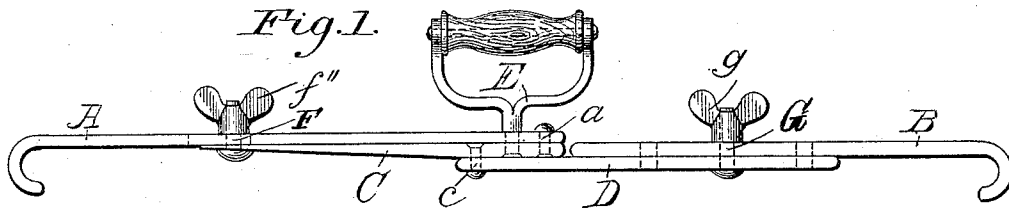


(No Model.)

D. J. REESE.  
GRAPPLE.

No. 452,950.

Patented May 26, 1891.



Witnesses

John L. Haviland.  
Robt. J. Thomas

Inventor.

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attys

# UNITED STATES PATENT OFFICE.

DANIEL J. REESE, OF PLYMOUTH, PENNSYLVANIA.

## GRAPPLE.

SPECIFICATION forming part of Letters Patent No. 452,950, dated May 26, 1891.

Application filed March 12, 1891. Serial No. 384,802. (No model.)

*To all whom it may concern:*

Be it known that I, DANIEL J. REESE, a citizen of the United States, residing at Plymouth, in the county of Luzerne and State of Pennsylvania, have invented certain new and useful Improvements in Grapples; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

My invention relates to grapples for carrying powder kegs or barrels; and it consists in certain improvements in the construction and combination of parts hereinafter described and claimed.

In the accompanying drawings, Figure 1 is a side view of the invention. Figs. 2, 3, 4, and 5 are detail views showing the several parts, and Fig. 6 a perspective view showing the grapple in use.

Similar letters refer to similar parts throughout the several views.

A and B represent the two arms or hooks by which the keg is grasped, as shown in Fig. 6 of drawings.

C represents the locking-bar, and D the connecting-bar.

The inner ends of the hook A and locking-bar C are pivoted together by the bolt *a*, and the inner end of the connecting-bar D is pivoted to the bar C by the bolt *c*. At a point about midway between the two bolts *a* and *c* the handle E is attached to the bar C, the hook A being provided with a transverse arc-shaped slot or recess *e*, adapted to receive the shank of the handle E when the grapple is locked. The outer end of the locking-bar C

is provided with a groove or slot *f*, adapted to receive the shank of the bolt F, projecting up through a longitudinal slot *f'* in the hook A.

In the hook B are three or more bolt-holes *b*, and the connecting-bar D is provided with corresponding holes *d*, the two parts being connected by the bolt G, passing through any two coinciding holes.

In operation, the required length or reach of the grapple being determined, the bolt G is passed through coinciding holes in the hook B and connecting-bar D and the two parts clamped together by the thumb-nut *g*. The bolt F is then loosened and slid along the slot *f'* and out of the slot *f*, and the locking-bar C being thus released the handle E is turned, projecting the hooks A and B in opposite directions sufficiently to allow them to pass over the heads of the keg. The handle is then turned back, drawing the parts together again, and the bolt F is slid into the slot *f* and secured by the thumb-nut *f''*.

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

In a grapple, the combination of the hook A, having a slot *f'* to receive the bolt F, and a transverse slot *e*, the locking-bar C, pivoted at its inner end to the inner end of the hook A and having in its outer end a slot *f*, the connecting-bar D, pivoted at its inner end to the locking-bar C and having bolt-holes *d*, the hook B, having bolt-holes *b*, and the handle E, secured to the locking-bar C, all constructed and arranged substantially as described.

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

DANIEL J. REESE.

Witnesses:

D. L. CREVELING,  
R. P. SMITH.