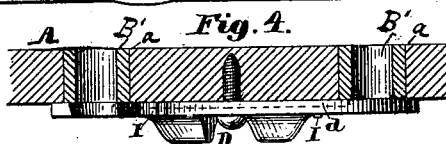
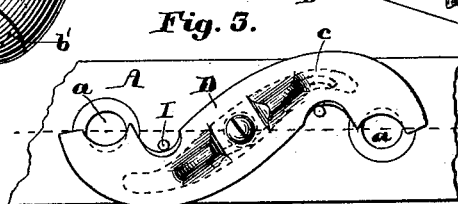
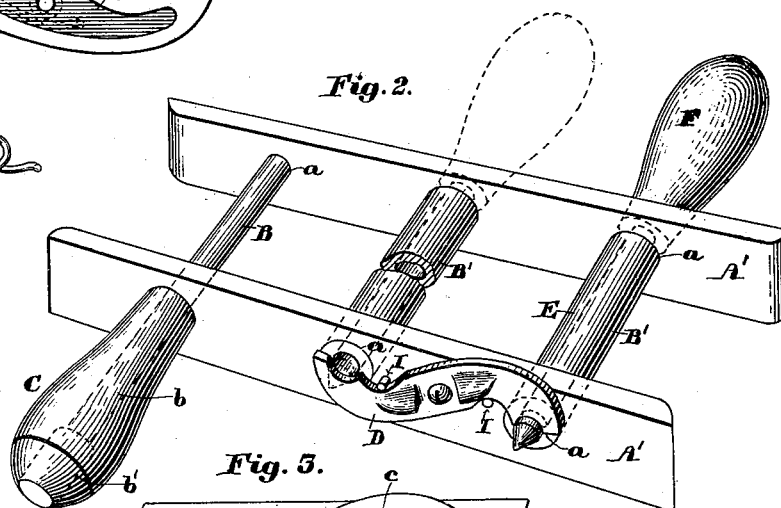
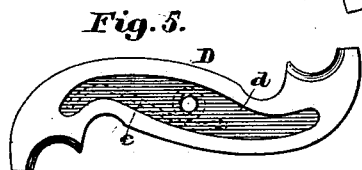


A. J. CARR.  
REEL.

Patented Jan. 3, 1893.



Witnesses:  
Jas. F. Sangston.  
E. A. Nuggan.

**Inventor:**  
Asmus J. Carr.  
By Chas. C. Killman  
Atty

# UNITED STATES PATENT OFFICE.

ASMUS J. CARR, OF CHICAGO, ILLINOIS.

## REEL.

SPECIFICATION forming part of Letters Patent No. 489,286, dated January 3, 1893.

Application filed April 27, 1891. Serial No. 391,581. (Model.)

*To all whom it may concern:*

Be it known that I, ASMUS J. CARR, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Reels, of which the following is a specification.

My invention relates to improvements in reels, and more especially to a class of hand reels used and designed for reeling or winding and tightening or stretching clothes lines, strands of wire and the like and it consists in certain peculiarities of the construction and novel arrangement of the different parts of the same as will be hereinafter more fully set forth and specifically claimed.

The objects of my invention are to afford a reel which shall be simple in construction and operation; light, yet strong and durable; inexpensive to manufacture and effective in its operation.

In order to enable others skilled in the art, to which my invention pertains to make and use the same I will now proceed to describe it, referring to the accompanying drawings in which:

Figure 1 is a perspective view of my reel. Fig. 2 is a similar view of a modification thereof. Fig. 3 is a side view of a portion of the frame of the reel having a lock or catch secured thereto. Fig. 4 is a sectional view of the same. Fig. 5 is an inner side view of the catch, and Fig. 6 is a view of the spring that operates the catch.

A, represents the side pieces of the main frame, made of any suitable material, and of proper length, size and form which may be best adapted to accommodate the line or other material to be wound on the reel, at suitable points in each of the pieces A, I provide a number of holes *a*, for the reception and retention of the rods B, and connecting tubes B', the connecting tubes B' being somewhat larger in circumference than the rods B, and provided with holes running longitudinally therethrough, and secured at each end in the holes *a*, in the side pieces A of the frame. The side pieces A may be arranged in the form of a cross as shown in Fig. 1, or the reel may be formed of two parallel side pieces A' as shown in Fig. 2, in each of which cases the

side pieces A, A' are held together by the rod or rods and connecting tubes as above described. One of the rods B, is extended through one of the side pieces A, as shown by dotted lines at *b*, in Fig. 1, and has its free end formed with an enlargement *b'*, which enlargement is countersunk in the handle C, through which the rod B, passes and thus prevents the handle slipping off, yet permitting it to turn freely on the end of the rod. The rod B in Fig. 2 is provided with a similar handle.

To the outside of one of the pieces A or A' of the reels, and midway between two of the holes *a*, is pivotally secured a spring-actuated catch or lock D, having in its under side a recess *d*, into which the spring *c*, for operating the catch rests. One end of the spring is secured to the piece A or A' and the other extends and bears against the catch within the recess as shown in Fig. 3. A small pin or stop I, is secured to the side piece of the reel at a proper point to allow each end of the piece D, to extend partially over the holes *a*, and to check the catch at this point. As shown each end of the catch is formed circular and the underside of each end is slightly beveled so that when the rod E, is inserted in either of the tubes B', and the tapering end *g*, thereof is pressed against the beveled end of the catch D, the said catch will yield and allow the head *g*, to pass beyond and by reason of the spring to clasp the rod around the neck *h*, which is much smaller in circumference than the head *g*, and is formed just back of the head. To the other end of the rod E, is secured either rigidly, or in the same manner as the handle C, a handle F.—From the above it will be readily understood that the rod E, is removable and that it can be used in either of the tubes B', as desired. My object in thus adjustably securing this rod is that in winding up the cord or line such a construction permits a somewhat more even action of the device. The rod E, being adapted to operate in either of the tubes B', as before explained, when the operation of winding is to be done the rod E, may be placed in the outer-tube when it will act as an axis alternately with the handle C, but when it is desired to unreel the cord the handle F, and rod

E, may be placed at the center of the frame and there secured by the catch D.

The operation of my device is simple and as follows: To wind the line upon the reel  
5 one end of the line is secured to either a rod B, or connecting tube B', the handle C, on the end of the rod B, is then firmly grasped with one hand and the rod E, inserted in the outer tube B', and there retained by the catch D;  
10 is held with the other hand, the reel is then turned over and over, the rods B and E acting as axes alternately. To unwind the line, the free end thereof is secured to a suitable point and the reel held by the handle F, at  
15 the middle of the frame in a horizontal position when by walking from the secured end of the cord the reel will revolve on the axis E, which is in the tube B', in the center of the

frame, and give off the line as rapidly as desired.

Having thus fully described my invention what I claim as new and desire to secure by Letters Patent is:

In a hand reel the combination of a frame having the holes *a*, with the rod B and tubes 25 B' secured in said holes, the handles C and F, secured on the rods B and E respectively, the rod E having the head *g*, and neck *h*, the lock D having the recess *d*, and beveled circular ends, spring *c*, and pin I, substantially 30 as and for the purpose set forth.

ASMUS J. CARR. [L. S.]

Witnesses:

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