C. CASTLE.

Hand Hose-Carriage.

No. 201,388. Patented March 19, 1878.

Fig. 2.

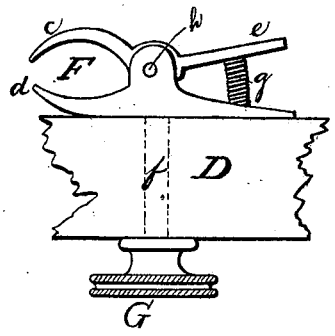



Fig. 1.

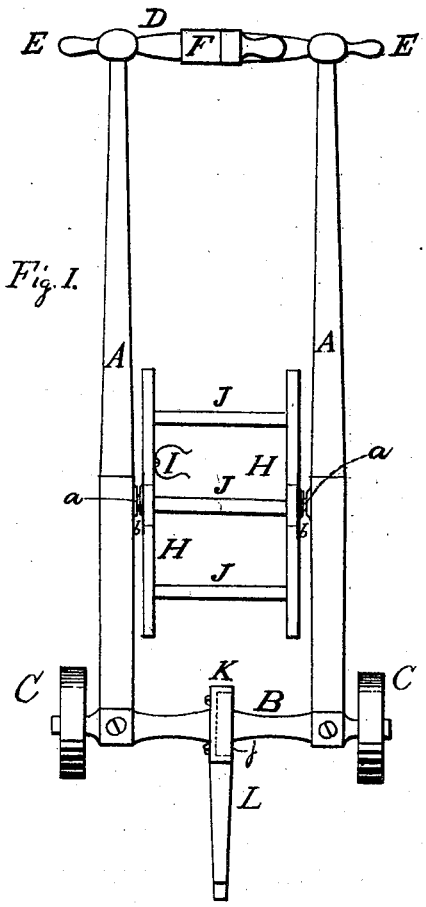



Fig. 3.

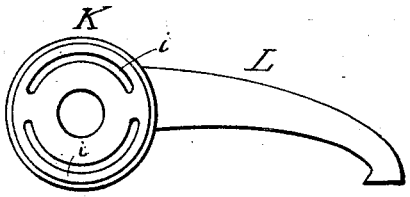
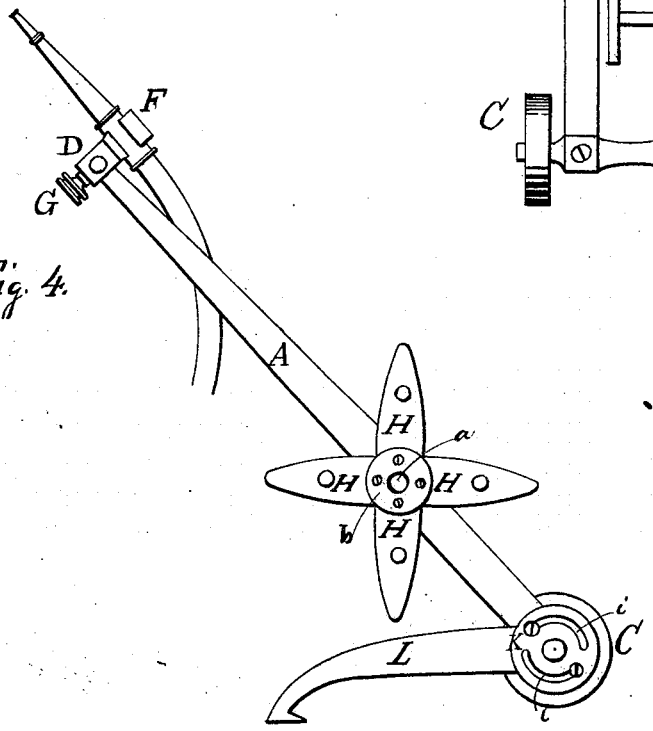



Fig. 4.




Witnesses;

William Keller

Geo. H. Kittlake

Inventor;

Christophie Castle

# UNITED STATES PATENT OFFICE.

CHRISTOPHER CASTLE, OF CLEVELAND, OHIO.

## IMPROVEMENT IN HAND HOSE-CARRIAGES.

Specification forming part of Letters Patent No. **201,388**, dated March 19, 1878; application filed October 19, 1877.

*To all whom it may concern:*

Be it known that I, CHRISTOPHER CASTLE, of Cleveland, in the county of Cuyahoga and State of Ohio, have invented new and useful Improvements in Hand Hose-Carriages, which improvements are fully set forth in the following specification and accompanying drawings, in which—

Figure 1 is a front view of my improved hose-carriage in an upright position. Fig. 2 is a fragment of the upper cross-bar with the nozzle-holder attached. Fig. 3 is the movable arm or brace for holding the carriage in position. Fig. 4 is a side view of the carriage with one wheel and side piece removed.

Like letters refer to the same parts in the different figures.

Said carriage is constructed with two side pieces, A A, held in place at the upper ends by the cross-bar D, the ends of which project for the handles E E. To the lower ends of these side pieces is firmly screwed or bolted the iron shaft B, projecting beyond the side pieces, and forming axles for the wheels C C. At a proper height between the side pieces is hung a reel for carrying hose, the sides or ends of which consist of four arms, H H H H, braced together by four bars, J J J J, and are furnished with metallic pivots *a a*, screwed thereto by means of plates *b b*, the reel turning upon the pivots in metal bearings in the side pieces A A.

Upon the inside of one or more of the arms of said reel is screwed a **C**-shaped metallic spring, I, of proper shape and strength to admit and hold firmly the butt of the hose to be wound.

At the middle of the cross-bar D is arranged a clasp, F, for holding the hose-nozzle in position. Fig. 2 represents said clasp enlarged.

The part *c e* is pivoted between two projections of *d* at *h*. The jaws at *c* and *d* are of proper curve and shape to fit the butt of the nozzle to be held. The jaws of the clasp are forced together, so as to hold the nozzle, by the spiral spring *g* or its equivalent.

Part *d* of the clasp is furnished with a round spindle, *f*, passing through cross-piece D, and terminating in a screw, upon which turns the thumb-nut G, by means of which the clasp may be loosened, turned, and tightened at pleasure upon the cross-piece.

The brace K L is made movable upon shaft B as follows: Upon B is firmly and concentrically fixed an iron wheel or disk, (indicated by the dotted line at *j*, Fig. 1,) of proper size, thickness, and strength. Upon this disk is fitted the circular part K of K L, properly hollowed or recessed for that purpose. The circle and arm K L is held upon the smaller disk or wheel by means of screws passing through concentric slots *i i* in circle K, allowing the arm L to be moved back and forth at pleasure within a certain range.

The object of my invention is to furnish a convenient hose carriage and reel, so constructed that it shall hold the hose and nozzle when in use, and readily give any desired direction to a jet or spray of water. By means of the movable arm or brace L, the carriage-frame may be set and held at any desired inclination from the surface of the ground.

By means of the nozzle-clasp F and its thumb-nut G the jet may be directed to the right or left at pleasure, and secured in the desired position when attained.

The curved spring I holds the butt of the hose when it is to be reeled up. The arrangement of metallic pivots for the reel to turn upon renders a spindle for that purpose unnecessary.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. The hose carriage and reel, mounted upon wheels provided with an adjustable arm or brace, by means of which the carriage-frame may be adjusted at any desired angle of inclination, thereby giving a corresponding direction to a jet of water, substantially as shown and described.

2. The combination of the adjustable arm or brace K L, turning upon the shaft B, and the nozzle-clasp F, provided with its spring, screw, and nut, properly adjusted, with the reel pivoted upon metallic bearings, dispensing with a spindle, all properly mounted upon a two-wheeled hose-carriage of proper construction, substantially as shown and described.

CHRISTOPHER CASTLE.

Witnesses:

WILLIAM KELLER,

GEO. M. WESTLAKE.