(No Model.)

S. F. REYNOLDS.

HOSE REEL.

No. 483,390. Patented Sept. 27, 1892.

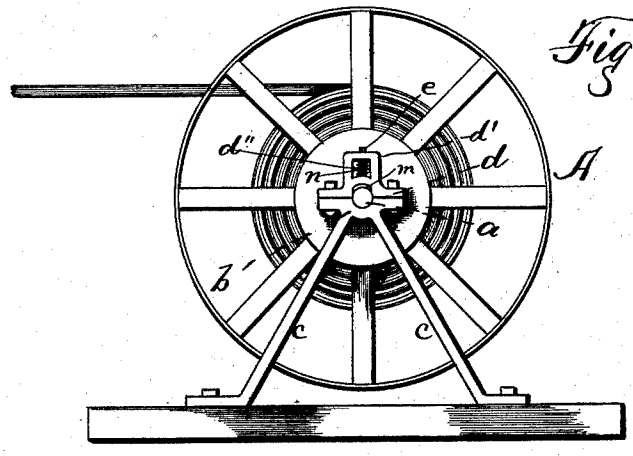

Fig. 1.

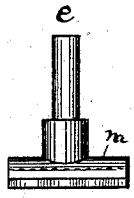

Fig 3

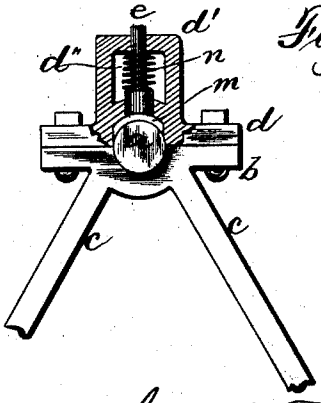

Fig. 2.

WITNESSES:
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Samuel F. Reynolds INVENTOR.

BY
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THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

SAMUEL F. REYNOLDS, OF AUBURN, NEW YORK.

HOSE-REEL.

SPECIFICATION forming part of Letters Patent No. 483,390, dated September 27, 1892.

Application filed December 8, 1891. Serial No. 414,379. (No model.)

To all whom it may concern:

Be it known that I, SAMUEL F. REYNOLDS, of Auburn, in the county of Cayuga, in the State of New York, have invented new and useful Improvements in Hose-Reels, of which the following, taken in connection with the accompanying drawings, is a full, clear, and exact description.

My invention relates to hose-heels, and particularly to the mechanism employed in their construction to prevent the reel from overrunning as the hose is drawn off quickly.

My object is to provide a hose-reel with a frictional plate pressing yieldingly but steadily upon the shaft which carries the reel, and is rotated by it so as to by such frictional contact prevent the reel from overrunning when it is quickly rotated by the drawing off of the hose reeled thereon, so that only the precise amount of hose needed will be reeled off and a surplus will not become liable to be kinked or tangled.

My invention consists in the several novel features of construction and operation hereinafter described, and which are specifically set forth in the claims hereunto annexed. It is constructed as follows, reference being had to the accompanying drawings, in which—

Figure 1 is a side elevation of a hose-reel provided with my attachment. Fig. 2 is an enlarged sectional detail of part of the reel, especially illustrating my frictional reel-retarding mechanism. Fig. 3 is a side view of the frictional bar.

A is the reel, of any ordinary construction, secured upon the shaft *a*, which shaft has half of its bearing in the half-box *b*, supported by the standards *c*. The other half of the journal-box consists of a base *d*, having a top extension *d'*, mortised horizontally, as at *d''*, and adapted to receive the vertical friction-bar *e*, and also recessed transversely in its lower face to receive part of the shaft *a* and the concaved friction-plate *m*, which fits upon said shaft and is held in frictional contact therewith by the spring *n*, within said mortise and around the friction-bar, bearing against the top of said mortise and the shoulder on said bar. The constant but yielding pressure exerted by this spring upon the friction-plate regulates the speed of the rotation of the reel, and consequently when hose is hurriedly drawn off from the reel, quickly rotating it, said mechanism will stop such rotation as soon as the strain upon the hose is reduced below a certain point, and the hose will not unreel nor the reel overrun, throwing off a lot of hose, more than is necessary, and which will be liable to become kinked and twisted and tangled.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. In a hose-reel, the combination, with the shaft and the reel secured thereon, of a friction-plate, a friction-bar, and a spring operating against said bar to hold said plate against the shaft.

2. In a hose-reel, the combination, with the shaft, the reel secured thereon, and the bearing for said shaft, of a removable box-section provided with a top extension recessed vertically to receive a friction-bar and a pressure-spring and recessed longitudinally to fit over the shaft and receive a friction-plate upon the shaft, a friction-bar, a pressure-spring, and a friction-plate, as set forth.

In witness whereof I have hereunto set my hand this 29th day of August, 1891.

SAMUEL F. REYNOLDS.

In presence of—
JOHN W. O'BRIEN,
J. B. HUNTER.