

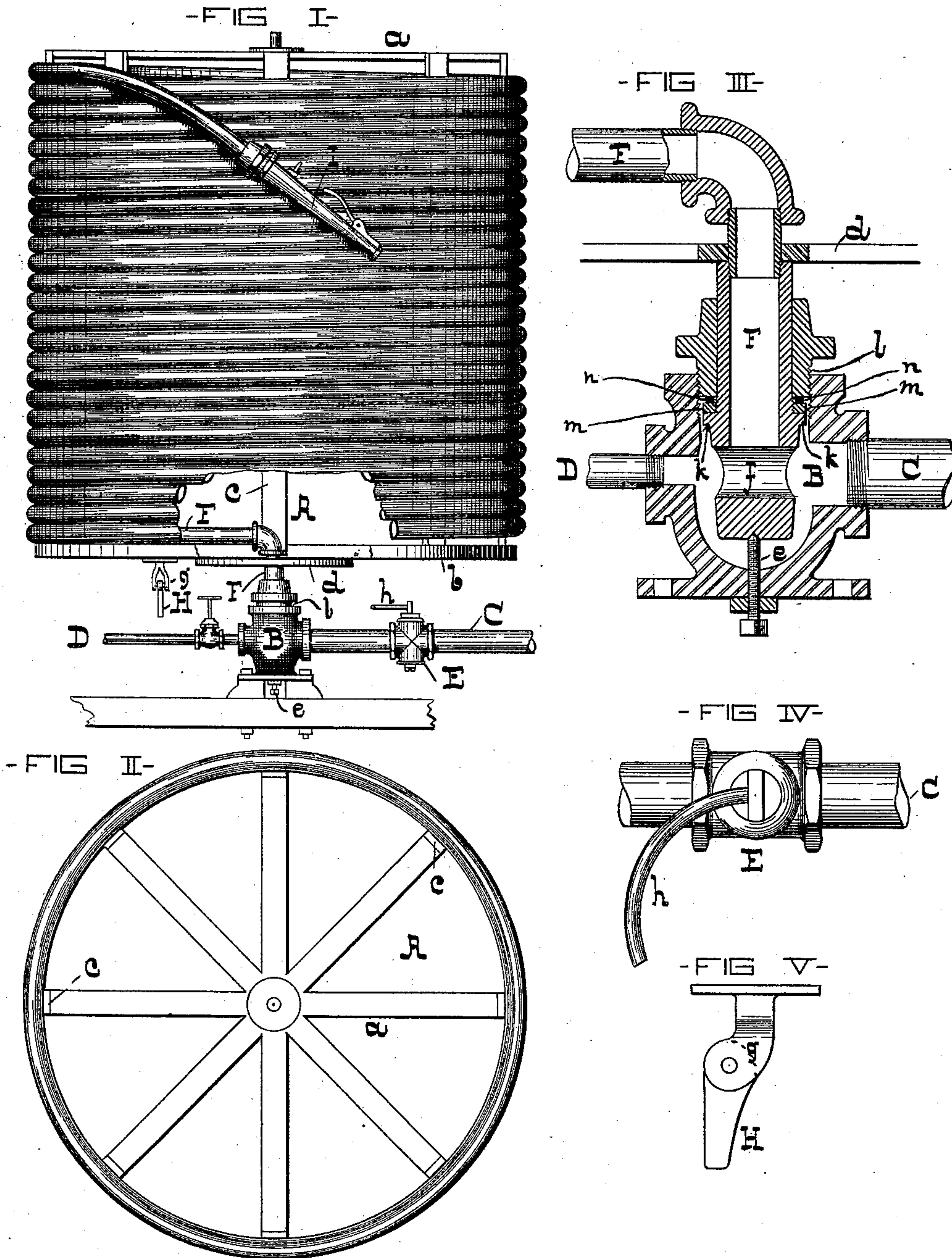
(No Model.)

C. D. KUBACH.

HOSE REEL.

No. 362,450.

Patented May 3, 1887.



-WITNESSES-

David Fisher

Charles Ross

-INVENTOR-

Charles D. Kubach,

by G. H. H. Howard, atty.



# UNITED STATES PATENT OFFICE.

CHARLES D. KUBACH, OF BALTIMORE, MARYLAND, ASSIGNOR OF THREE-  
FOURTHS TO HENRY C. CHIPMAN, OF SAME PLACE.

## HOSE-REEL.

SPECIFICATION forming part of Letters Patent No. 362,450, dated May 3, 1887.

Application filed July 15, 1886. Serial No. 208,112. (No model.)

*To all whom it may concern:*

Be it known that I, CHARLES D. KUBACH, of the city of Baltimore, in the State of Maryland, have invented certain Improvements in Hose-Reels, of which the following is a specification.

This invention, in common with others of its class, relates to certain improvements in a hose-reel whereby, in the unwinding of the hose, the cock which controls the supply of water to the hose is opened and water allowed to flow. In such reels, it is only necessary, in case of fire, to unwind the hose, or as much of it as is required to reach the fire or place where the water is to be discharged, as water is automatically turned on. I preferably use, in connection with the cock-opening devices, a nozzle having a cock or valve at its discharge end, whereby the issue of water from the nozzle can be prevented until the fire is reached.

In the drawings forming a part hereof, Figure I is a side elevation of the improved hose-reel, and Fig. II a top view of the same. Figs. III, IV, and V are details of the invention on an enlarged scale.

In the said drawings, A is the hose-reel, which consists of the upper and lower skeleton heads, respectively denoted by *a* and *b*, and the peripheral slats or bars *c*, which unite the said heads. (See Fig. I.)

B is a water-supply chamber, and C and D are, respectively, the water-supply pipe and the drain-pipe, the former having the stop-cock E, which is opened in the unwinding of the hose, as hereinafter described, and the latter a valve to be used when the hose is to be drained. This drain-valve is preferably constructed after the manner of a safety-valve, so as to prevent the hose being subjected to a too great water-pressure.

F is a pipe to which the inner end of the hose G is attached, and its lower end enters the water-supply chamber B, where it is packed to prevent leakage, as hereinafter described. The hose-reel rests on and is secured to a collar, *d*, on the pipe F, and the whole is supported by the pointed screw *e* in the bottom of the water-supply chamber B. The screw *e* bears against the lower end of the pipe F, which is closed. The pipe F has a lateral

opening, *f*, in communication with the interior of the chamber B, which admits of water entering the hose at any time. The water-supply chamber B is bolted to the floor, as shown in Fig. I.

H is a spur hinged to the lug *g*, which is fastened to the bottom of the reel, and it is placed in such position as to come in contact with the cock-handle *h* and open the cock as the reel is revolved in the unwinding of the hose.

F is a pipe to which the inner end of the hose G is attached, and its lower end enters the water-supply chamber B. This pipe, which rotates with the hose-reel proper, is packed within the water-chamber B as follows: The said pipe is fitted with a collar, *k*, slightly less in diameter than the interior of the water-chamber, and the latter is provided with a gland, *l*, which is screwed into it. Between the lower face of the gland and the upper face of the collar *k* are situated two packing-gaskets, *m* and *n*, the former being made of metal and the latter of india-rubber or some other flexible material. The rubber gasket, in connection with the screw *e*, serves to retain the metal gasket closely in contact with the upper face of the collar *k* to form a water-tight joint. In view of the flexibility of the gasket *n*, little resistance is offered to the rotation of the pipe F in the chamber.

When it is desired to use the hose, the fireman seizes the nozzle I and carries it to the place where water is required. In the first revolution of the reel the spur H comes in contact with the handle of the cock E, and water is turned on. The discharge of water from the hose-nozzle does not, however, necessarily take place as soon as the cock E is opened, as the said nozzle is provided with a cock or valve at its outer end, which is only opened when water is required.

When the use of the hose is to be discontinued, the cock E is closed, the hinged spur H turned up toward the bottom of the reel, and the hose rewound on the reel. The spur H is then turned down, when the reel is again ready for use.

I claim as my invention—

In a hose-reel, a stationary water-supply chamber open at the top and internally

threaded, and provided at its bottom with a pointed screw which extends into the said chamber, combined with a central rotative water-pipe for the hose, having a collar there-  
5 on adapted at its lower end to rest on the said pointed screw, a gland screwed into the upper end of the water-chamber and around the central rotative pipe, and a metallic and a flexible gasket situated between the said collar and gland, substantially as and for the purpose specified. 10

CHARLES D. KUBACH.

Witnesses:

WM. T. HOWARD,  
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