(No Model.) 2 Sheets—Sheet 1.

H. NICHOLSBURG.

APPARATUS FOR CLEANING CARRIAGES.

No. 553,291. Patented Jan. 21, 1896.

FIG. 1.

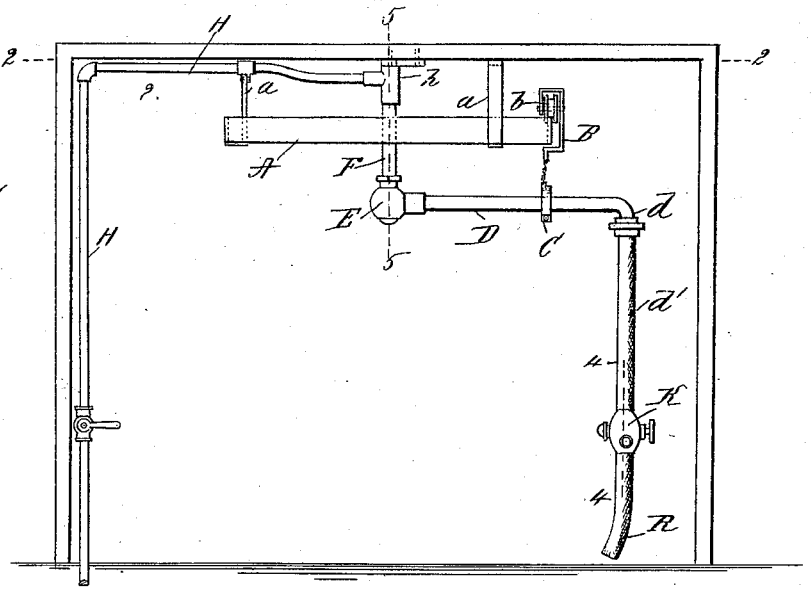
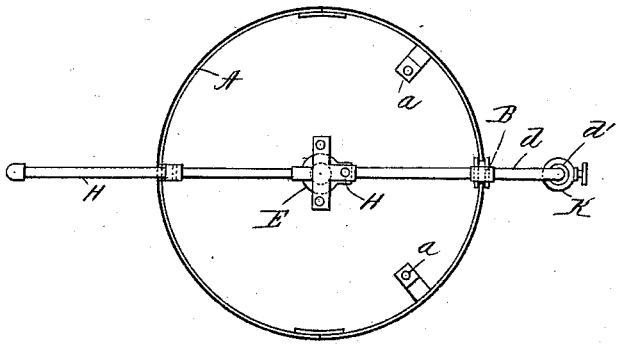


FIG. 2.



WITNESSES:
John Buckler,
A. M. Cusack

INVENTOR
Henry Nicholsburg.
BY
Edgar Tate & Co
ATTORNEYS

(No Model.) 2 Sheets—Sheet 2.

H. NICHOLSBURG.

APPARATUS FOR CLEANING CARRIAGES.

No. 553,291. Patented Jan. 21, 1896.

FIG. 3.

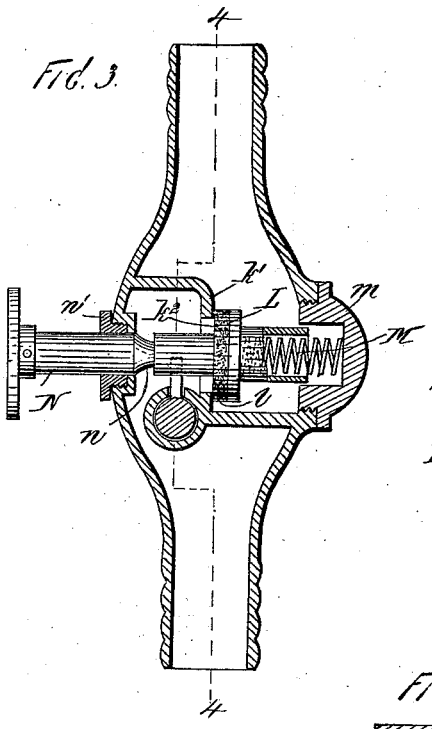


FIG. 4.

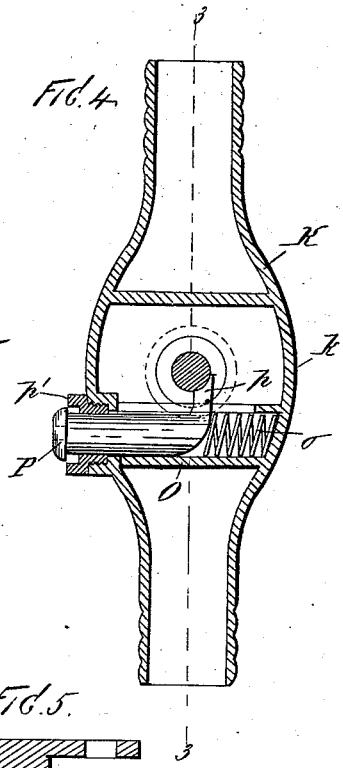


FIG. 5.

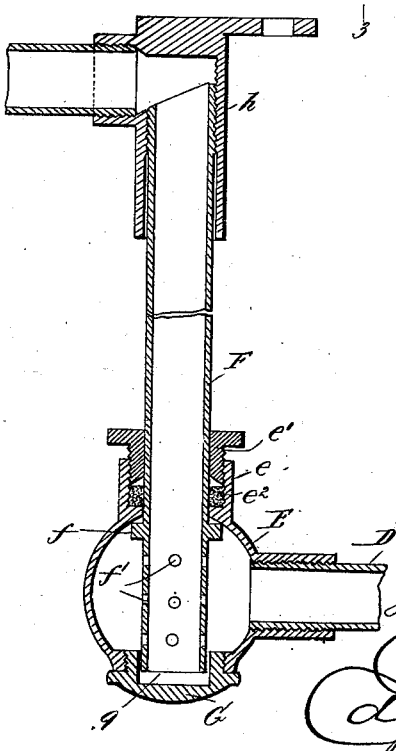


FIG. 6.

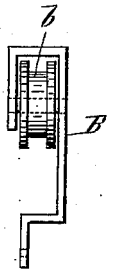
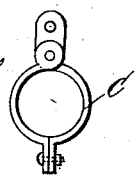


FIG. 7.



WITNESSES:

John Buckler,

A. M. Cusack

INVENTOR

Henry Nicholsburg,

BY

Edgar Tate & Co

ATTORNEYS

UNITED STATES PATENT OFFICE.

HENRY NICHOLSBURG, OF NEW YORK, N. Y.

APPARATUS FOR CLEANING CARRIAGES.

SPECIFICATION forming part of Letters Patent No. 553,291, dated January 21, 1896.

Application filed July 5, 1895. Serial No. 555,017. (No model.)

To all whom it may concern:

Be it known that I, HENRY NICHOLSBURG, a citizen of the United States, and a resident of New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Apparatus for Cleaning Carriages, of which the following is a specification, reference being had to the accompanying drawings, forming a part thereof, in which similar letters of reference indicate corresponding parts.

This invention relates to an apparatus for cleaning carriages and other vehicles, and is adapted to be used in livery-stables, carriage-houses, and such places; and the invention consists in the construction, combination and arrangement of parts hereinafter described and claimed.

The invention is fully disclosed in the following specification, of which the accompanying drawings form a part, and in which—

Figure 1 is a side elevation of my improved apparatus arranged in a room or apartment ready for use; Fig. 2, a plan view on the line 2 2 of Fig. 1, looking downward; Fig. 3, a section on the line 3 3 of Fig. 4; Fig. 4, a section on the line 4 4 of Fig. 3, and also on the line 4 4 of Fig. 1; Fig. 5, a section on the line 5 5 of Fig. 1; and Figs. 6 and 7 represent details of the construction.

In the practice of my invention I employ a ring A, which is suspended from the ceiling by hangers *a* or in any preferred manner, and mounted on the ring A is a carriage B, in the upper end of which is journaled a grooved wheel *b*, which is adapted to travel on said ring, and to the lower end of the carriage is secured in any desired manner a clasp-ring C, one member of which is hinged to said carriage B, said clasp-ring having extensions or lugs carrying a bolt and nut to force said members together, and being adapted to support a pipe D, which connects with and is in communication with a hollow head E, which is revolubly mounted on the lower end of a pipe F.

The head E is adapted to rest upon an annular shoulder or projection *f* on the pipe F, and the lower end of said pipe, within the head E, is perforated, as shown at *f'*, and within a tubular screw-threaded extension *e* of the head E are placed an annular screw-threaded nut *e'* and a packing-ring e^2, and by means of these parts a water-tight connection may be made between the head E and the tube F, which will admit of the free revolution of the head on the pipe, as will be readily understood, and the lower end of the head E is also provided with a screw-threaded cap G, having a tubular cavity *g* therein, in which the lower end of said tube F rests, as clearly shown in Fig. 5.

The upper end of the tube F is in connection with a water-supply pipe H, and is also rigidly connected with the ceiling or other support, by means of a tubular hanger *h*, and the outer end of the tube D is curved downwardly, as shown at *d*, and adapted to receive a flexible tube *d'*, with which is connected a water-saving device K, consisting of a tube having a central longitudinal enlargement *k*, having a partition-plate *k'*, through which is a port or opening k^2, adapted to be closed by a valve L, provided at one side with a tubular extension, in which is located a spring M, one end of which has a bearing in a cylindrical cavity formed in a screw-threaded cap *m*, which is adapted to close a corresponding opening in the side of the enlargement *k* of the water-supply regulator.

The object of my saving device K is that when the hose is temporarily laid aside, in order that the operator may wipe off dry the vehicle, the flow of water may be cut off by releasing the plunger by pressure of the finger without the trouble of cutting off the water from the water-supply pipe, as is ordinarily the case. Therefore it is obvious that a great useless waste of water is obviated by the employment of this water-saving device, which is operated with no trouble or annoyance on the part of the person using the same.

In the opposite side of the enlargement K is placed a plunger N, the inner end of which is adapted to contact with said valve, or the inner end of the plunger may be connected with said valve in any preferred manner, and the plunger N is provided with an annular recess *n*, the outer walls of which are inclined downwardly and the inner walls of which are vertical or formed at a right angle to the axis of the plunger.

Passing through the enlarged portion *h* of the water-saving device, at right angles to the

plunger N, is a tube O, the upper side of which is open and the other side of which is closed, and through the open end of this tube extends a plunger P, which is provided at its upper end with a shank *p*, adapted to operate in connection with the annular recess *n* in the plunger N, and in said tube O is also placed a spiral spring *o*, adapted to operate upon the plunger P and press it outward, so as to force the shank *p* into the annular groove or recess *n* of the plunger N. Connected with the lower end of the water-saving device K is also a flexible tube R, which may be provided with a discharge-nozzle of any preferred form or construction, and the operation will be apparent from the foregoing description, when taken in connection with the accompanying drawings.

It is evident that by reason of the construction described the tube D may be revolved on the tube F, in which operation it is supported by the carriage B, which travels around on the ring A, and by means of this construction the flexible tube R may be carried to almost any part of the apartment in which the apparatus is operated without in any way interfering with the water-supply or the operation thereof.

When it is desired to wash or clean a carriage or other vehicle, or to use the water for any other purpose, the flexible tube R is taken in hand, and also the water-saving device K, with which it is connected, and the plunger N pushed in so as to open the valve L, and in this operation the shank *p* of the plunger P is forced into the annular groove or recess *n* of the plunger N, in which position the plunger N will be held stationary and the valve open as long as it is desired to use the water, which will flow through the said supply-regulator, as will be readily understood; and when it is desired to cut off the supply the plunger P is pushed in against the operation of the spring *o*, when the valve L will be seated by the operation of the spring N and the water-supply cut off.

The valve L is provided with a packing-washer *l* in the usual manner, and both of the plungers N and P are held in place by annular screw-caps *n'* and *p'*, as shown in Figs. 3 and 4, and these connections may also be provided with packing if desired.

It is evident that changes in the form, construction, and combination of the various parts shown and described may be made without departing from the spirit of my invention or sacrificing its advantages, and I therefore reserve the right to make such alterations therein as fairly come within the scope of the invention.

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

1. In a water supply apparatus, the combination with a ring suitably suspended, of a carriage adapted to travel thereon, a water supply pipe suspended through said ring, a revoluble hollow head mounted on the said pipe in communication therewith, and a pipe connected with said head, and supported by said carriage, and a flexible tube connected with said last named pipe, and provided with a water supply regulator or cock, consisting of a casing having an enlarged central portion provided with a partition, having a central port or opening, a spring operated valve adapted to close said opening, and a plunger extending through the side of the casing adapted to operate said valve, said casing being also provided with a spring operated plunger at right angles to the valve plunger by which the latter is held in the position in which the valve is open, substantially as shown and described.

2. In a water supply apparatus, the combination therewith, of a water supply regulator or cock, comprising a casing having a partition therein, part of which is arranged longitudinally thereof, and provided with a central opening, a spring operated valve on one side of said opening, a plunger connected therewith, or adapted to operate thereon, on the opposite side and extending through the casing, and another spring operated plunger, extending through said casing, at right angles to the valve plunger, and adapted to hold the valve open, said valve plunger being provided with an annular groove or recess, and the plunger at right angles thereto with a shank adapted to enter the same, substantially as shown and described.

In testimony that I claim the foregoing as my invention I have signed my name, in presence of two witnesses, this 2d day of July, 1895.

HENRY NICHOLSBURG.

Witnesses:
L. M. MULLER,
M. A. KNOWLES.