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W. J. TIDEMAN

POOL CLEANING TOOL

Filed Oct. 31, 1921

2 Sheets-Sheet 1.

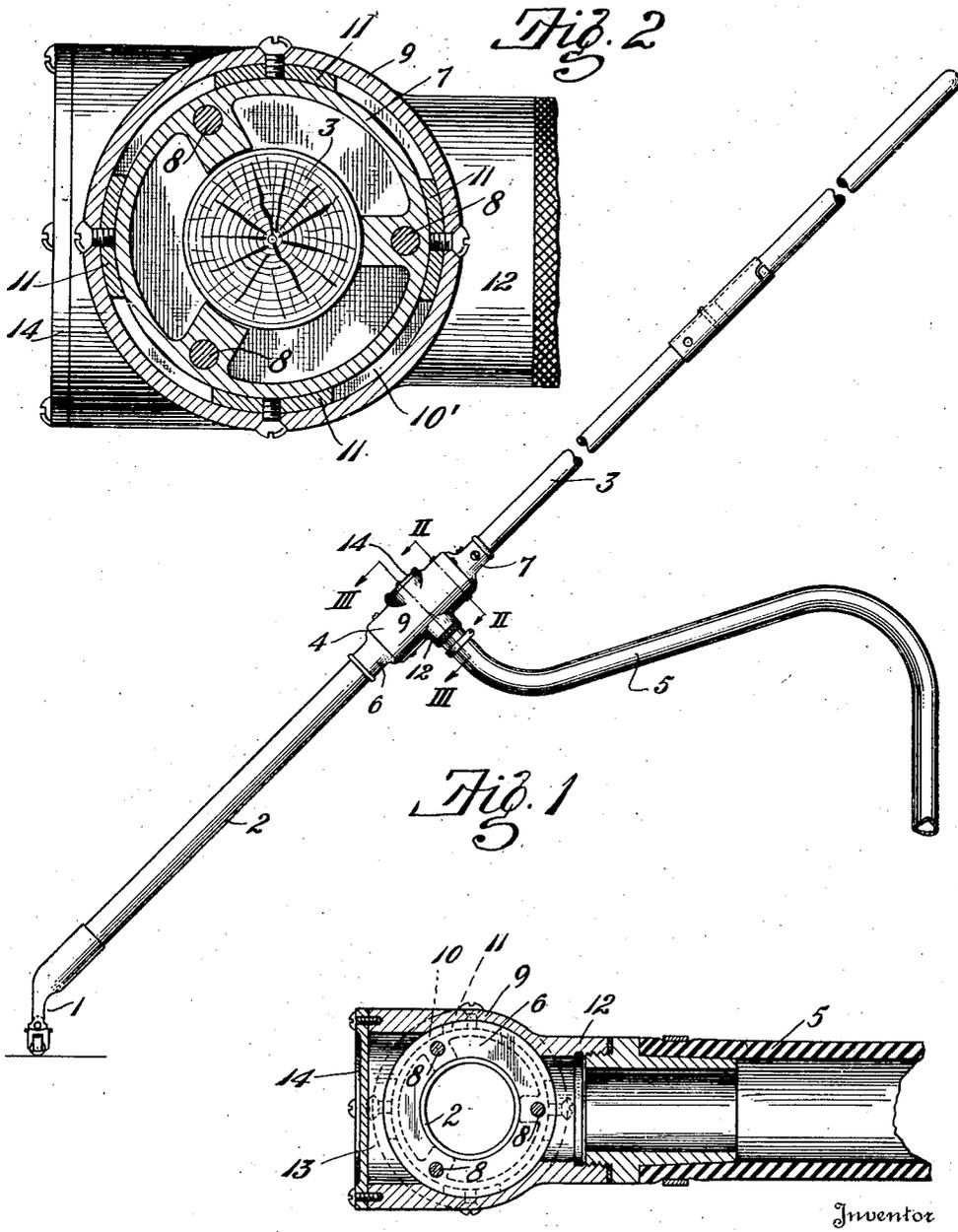


Fig. 3 William J. Tideman

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2 Sheets-Sheet 2

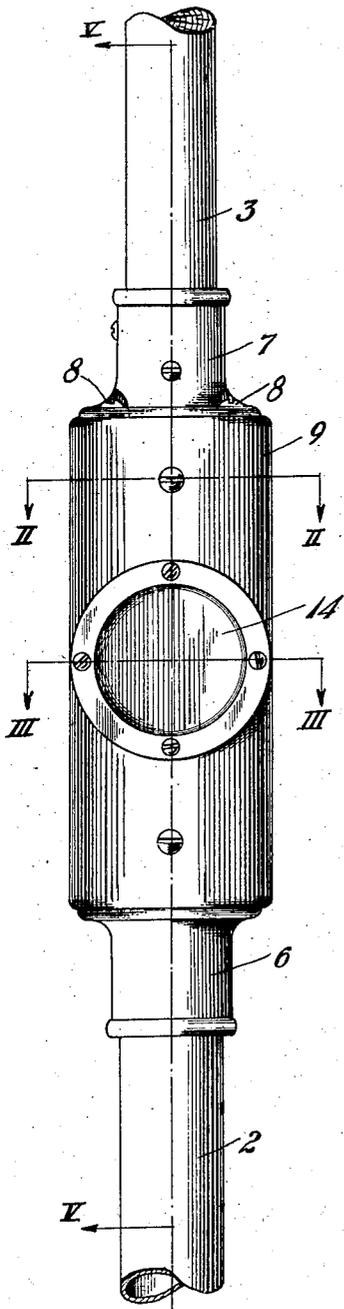


Fig. 4

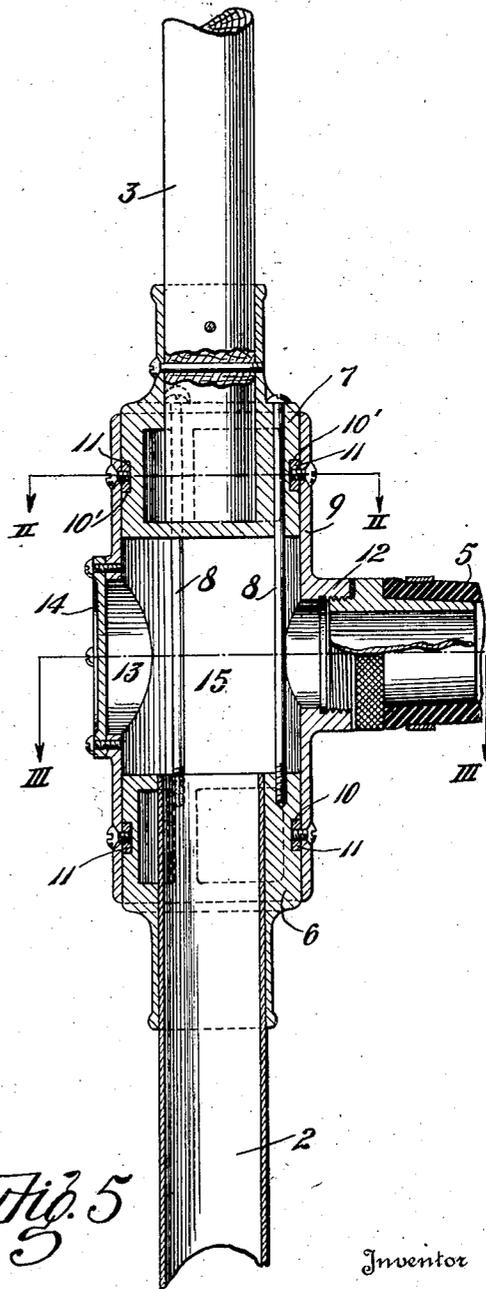


Fig. 5

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UNITED STATES PATENT OFFICE.

WILLIAM J. TIDEMAN, OF CANTON, OHIO, ASSIGNOR TO THE UNITED ELECTRIC COMPANY, OF CANTON, OHIO, A CORPORATION.

POOL-CLEANING TOOL.

Application filed October 31, 1921. Serial No. 511,964.

To all whom it may concern:

Be it known that I, WILLIAM J. TIDEMAN, a citizen of the United States, residing at Canton, in the county of Stark and State of Ohio, have invented a new and useful Improvement in Pool-Cleaning Tools, of which the following is a specification.

The invention relates to suction cleaning tools for swimming pools and the like; and the object of the improvement is to provide means for catching socks, kerchiefs and like articles which may find their way through the cleaning tool into the swiveled hose fitting, and also to provide means for removing the same from the fitting.

In cleaning swimming pools with a suction tool it is difficult, if not impossible to prevent the entrance of socks, kerchiefs, and other small articles, from entering the tool, and although they may pass freely through the tubular stem they frequently lodge in the suction hose to clog the same, and great inconvenience and difficulty may be experienced in removing the article from the hose.

The hose connection for such a tool may be in the form of a cylindrical fitting swiveled at each end upon adjacent ends of the nozzle tube and the handle bar, with a hose connection at one side; and the present invention involves the use of connecting means between the adjacent tube and bar forming a cage to shield the entrance to the hose, and the use of a normally covered hand hole in another side of the fitting for removing articles caught therein.

A preferred embodiment of the invention is illustrated in the accompanying drawings forming a part hereof, in which—

Figure 1 is a side elevation of the improved pool cleaning tool;

Fig. 2, a cross section of the same on line II—II, Figs. 1, 4 and 5;

Fig. 3, a cross section on line III—III, Figs. 1, 4 and 5;

Fig. 4, a side elevation of the swiveled hose connection fitting, on the hand hole side; and

Fig. 5, a longitudinal section of the same on line V—V, Fig. 4.

Similar numerals refer to similar parts throughout the drawings.

The pool cleaning tool may comprise the suction nozzle 1 on the lower end of a tubular stem 2, a handle bar 3 in axial alignment and adjacent to the upper end of the tubu-

lar stem, and a hose fitting 4 swiveled on the adjacent ends of the tube and bar, with a hose 5 connected to one side of the fitting.

A collar bushing 6 is secured to the upper end of the tubular stem 2, and a cap bushing 7 is secured to the lower end of the handle bar 3. The tube and bar are connected and held from relative rotation in axial alignment by means of a plurality of long bolts 8 extending through the cap bushing into the collar bushing, as well shown in Fig. 5.

A cylindrical fitting 9 is swiveled around the adjacent bushings 6 and 7 and holds them in spaced relation, by means of annular grooves 10 and 10' in the periphery of the bushing and segmental guides 11 secured inside the fitting and operating in the annular grooves, as well shown in Figs. 2 and 5. At one side of the fitting is provided the hose connection 12, and in another side of the fitting is provided a hand hole 13 normally closed by a removable cover 14.

By this construction and arrangement it is evident that the shanks of the bolts 8 form a cage around the tubular stem 2, within the chamber 15 formed between the ends of the tube and bar by the cylindrical fitting 9; which cage catches articles drawn through the tube into the fitting, and prevents the same from entering the hose; and it is evident that an article caught in the fitting can be readily removed therefrom by detaching the cover 14 from the hand hole 13.

I claim:

1. A pool cleaning tool including a tubular stem and an adjacent handle bar in axial alignment, connecting means holding the tubular stem and handle bar from relative rotation, a cylindrical fitting swiveled on the adjacent ends of the tubular stem and handle bar forming a chamber between them, a hose connection at one side of the fitting, a normally covered hand hole in another side of the fitting.
2. A pool cleaning tool including a tubular stem and an adjacent handle bar connected in axial alignment, a cylindrical fitting swiveled on the adjacent ends of the tubular stem and handle bar forming a chamber between them, a hose connection at one side of the fitting, and means forming a cage within the fitting around the opening of the tube.
3. A pool cleaning tool including a tubu-

- lar stem and an adjacent handle bar connected in axial alignment, a cylindric fitting swiveled on the adjacent ends of the tubular stem and handle bar forming a chamber between them, a hose connection at one side of the fitting, a normally covered hand hole in another side of the fitting, and means forming a cage within the fitting around the opening of the tube.
- 5
- 10 4. A pool cleaning tool including a tubular stem and an adjacent handle bar connected in axial alignment, a cylindric fitting swiveled on the adjacent ends of the tubular stem and handle bar forming a chamber between them, a hose connection at one side of the fitting, a normally covered hand hole in another side of the fitting, and connecting bolts between the tube and bar forming a cage within the chamber around the opening of the tube.

WILLIAM J. TIDEMAN.