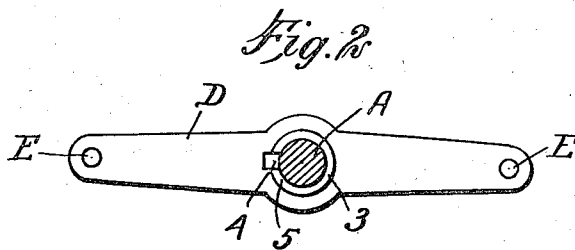
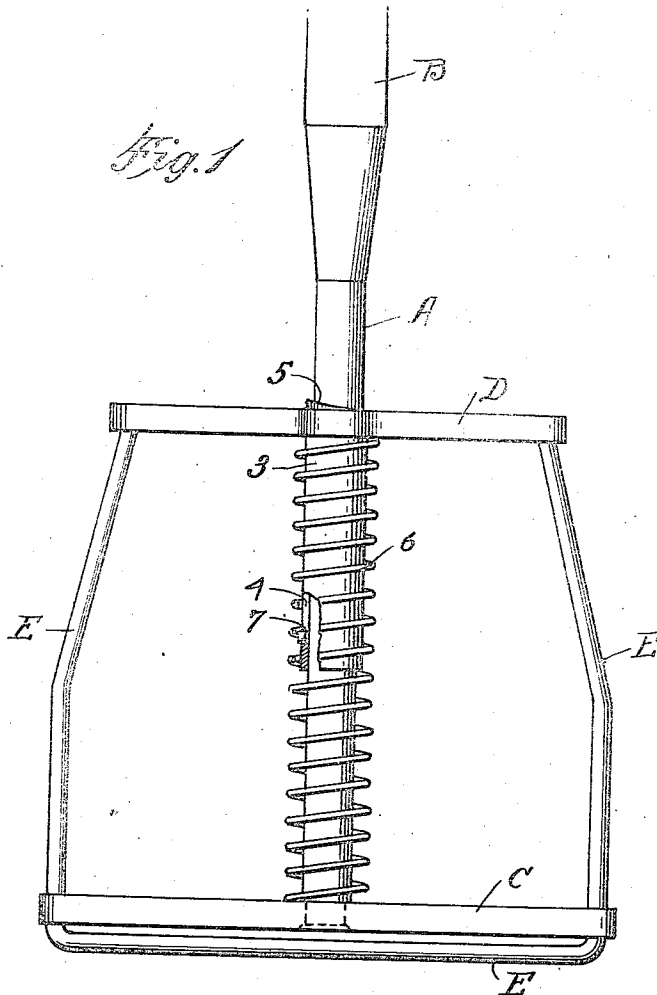


B. E. SHANNAHAN.
MOP HOLDER.
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1,245,990.

Patented Nov. 6, 1917.



WITNESSES:
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UNITED STATES PATENT OFFICE.

BERNARD E. SHANNAHAN, OF BINGHAMTON, NEW YORK.

MOP-HOLDER.

1,245,990.

Specification of Letters Patent.

Patented Nov. 6, 1917.

Application filed June 12, 1916. Serial No. 103,051.

To all whom it may concern:

Be it known that I, BERNARD E. SHANNAHAN, a citizen of the United States, residing at Binghamton, in the county of Broome and State of New York, have invented certain new and useful Improvements in Mop-Holders, of which the following is a specification.

My invention relates to an improvement in mop holders, in which the mop is automatically gripped and held in the handle head, and from which it can be automatically released from the handle head. It has for its object to provide a ready means for inserting, holding and releasing the mop from a mop handle, without resort to turn screws and levers commonly used, for such purposes. With this object in view my invention consists in certain novel features of construction and arrangement of parts as will be hereinafter fully described and pointed out in the claim, reference being had to the accompanying drawings in which Figure 1 is a front elevation of my device. Fig. 2 is a top plan view of a part of my device the handle being shown in section. The same reference characters denote like parts in each of the several figures of the drawings. In carrying out my invention I provide a rod A mounted in any convenient manner in the end of the handle B, and I have pivotally mounted on the handle rod A the lower cross bar C and slidably mounted on rod A, I have the upper cross bar D; and mounted on the bar D, I have the guide frame E and slidably mounted on which frame E is the lower cross bar C. Mounted in the upper cross bar D, I have the slotted tube 3 which has in it the side slot 4. The upper end of 3 projects above the upper cross bar D and its upper end has a sloping surface 5. The rod A is slidably mounted in and has slidable connection with the tube 3 mounted between the bars C and D. I have the coil spring 6, and mounted in the side of rod A, I have the lug 7 which projects outward through the slot 4. In the operation of my device and in order to open the mop handle head, I place my foot

against bar D and pull the handle toward me which causes the lower end of guide frame E to pass downward, leaving an open space between frame E and cross bar C, and the same time lug 7 moves upward in slot 4 carried by rod A until the lug 7 moves beyond the upper end of tube 3 at 5. I then turn the handle B which turns rod A which turns the lug 7, until it has passed the entrance to the slot 4 and rests on the end of the tube 3 and causes the guide frame to be locked in an open position to receive the mop between said guide frame and the lower cross bar C. Having placed the mop then within guide frame opening E, I again turn the handle B which turns rod A until lug 7 is opposite to slot 3 and enters when the coil spring 6, before contracted, now expands, and pressing against the lower cross bar C, causes the bar C to be forced downward and the guide frame E forced upward, and thus the mop is firmly held between the bar and the guide frame E. When I wish to remove the mop I repeat the operation above described by placing my foot against the upper cross bar D forcing the guide frame open and until lug 7 is locked over the end of tube 3 and then remove the mop.

Having thus described my invention what I claim as new and for which I desire Letters Patent is as follows:

In a mop holder, a handle, a handle rod extending from the end of the same, a guide frame having mounted therein a slotted tube, said handle rod being slidably mounted in said tube, a lug mounted in the handle rod and engaging the tube slot, a bar slidably mounted in the guide frame and pivotally mounted on the end of the handle rod, a coil spring surrounding said handle rod and tube, and extending between the guide frame and the pivotally mounted bar.

In testimony whereof I have affixed my signature in the presence of two witnesses.

BERNARD E. SHANNAHAN.

Witnesses:

A. C. MAHER,
M. F. TERRY.