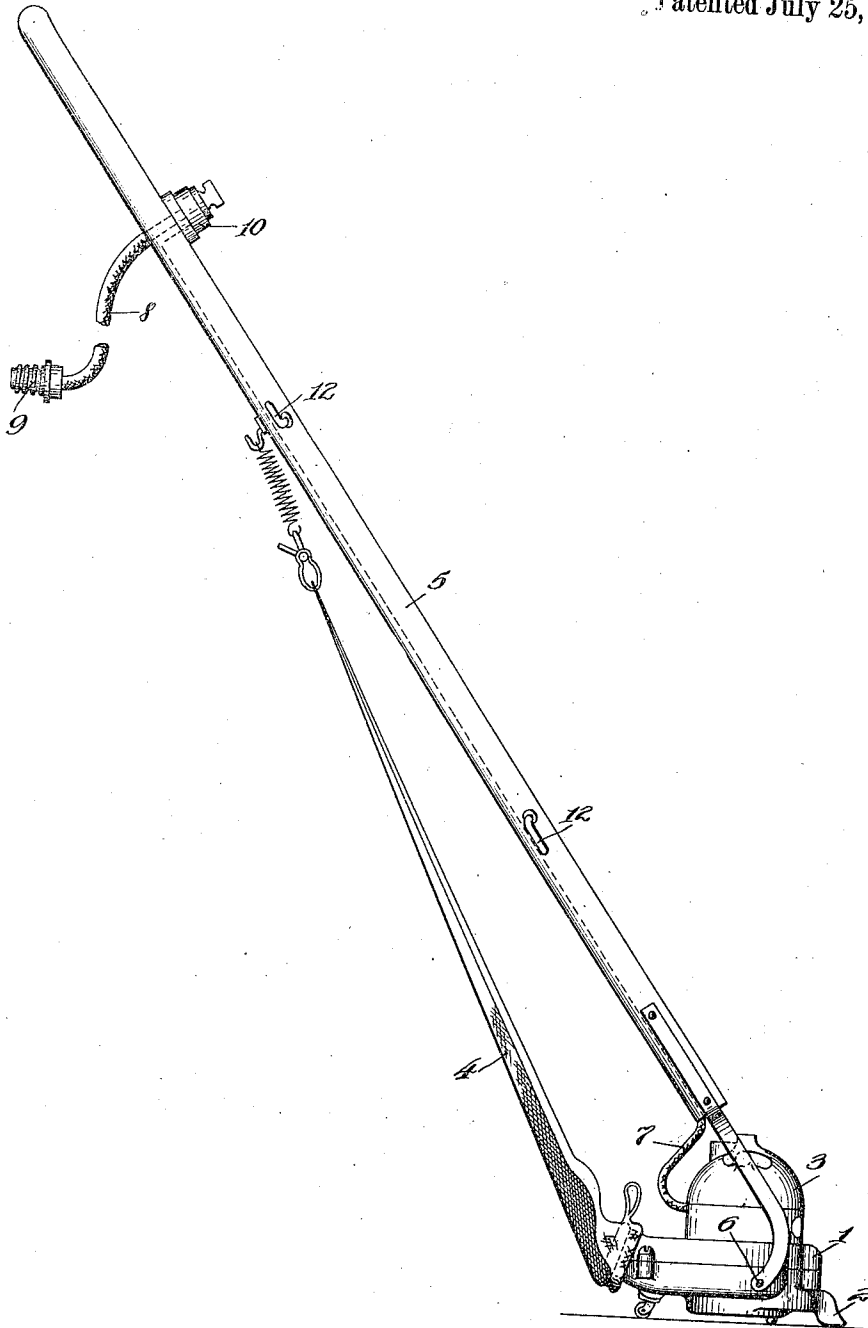


J. B. KIRBY.
SUCTION CLEANER.
APPLICATION FILED JUNE 21, 1915.

1,192,830.

Patented July 25, 1916



INVENTOR,
James B. Kirby
BY Hull, Smith, Brock & West,
ATTY'S.

UNITED STATES PATENT OFFICE.

JAMES B. KIRBY, OF CLEVELAND, OHIO.

SUCTION-CLEANER.

1,192,830.

Specification of Letters Patent.

Patented July 25, 1916.

Original application filed December 7, 1914, Serial No. 876,642. Divided and this application filed June 21, 1915. Serial No. 35,225.

To all whom it may concern:

Be it known that I, JAMES B. KIRBY, a citizen of the United States, residing at Cleveland, in the county of Cuyahoga and State of Ohio, have invented a certain new and useful Improvement in Suction-Cleaners, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings:

This invention relates to suction cleaners of the type particularly applicable to indoor domestic use and designed primarily for use upon floors, floor coverings, stairs, and the like. Such machines enjoy a large amount of deserved popularity because of their light weight, easy operation, and effectiveness. In their preferred construction, such machines comprise a casing having an operating nozzle or suction mouth, a pumping device in said casing communicating with said mouth and discharging into a dust bag or other separator, an electric motor operatively connected to the pumping device, and an operating handle connected to some part of said casing whereby it may be manipulated.

According to my invention the electric conduit whereby the motor is operated is first passed along the handle to a point adjacent to its upper end and is thereafter led away from the same to a connection with a suitable outlet or lamp socket. Hooks or other shoulders are provided upon the handle for the reception of the flexible cord when the machine is not in use, or to carry a surplus of cord while the machine is being used, and a controlling switch is provided near the upper end of the handle and near the point where the flexible cord leaves the same.

The present application is a division of my application Serial No. 876,642 (now Patent No. 1,184,458, granted May 23, 1916) which in turn was a continuation of a yet earlier application filed November 2, 1910, Serial No. 590,276.

In the drawing accompanying and forming a part of this application I have illustrated one embodiment of my said invention.

In this drawing 1 represents the cleaner casing, provided with the suction nozzle 2, motor 3 and connected with the dust bag 4.

5 denotes the handle of the cleaner which consists of a rigid rod pivoted to the cleaner casing at 6.

The electric energy is conveyed to the ma-

chine by means of the conduit 7 which passes along the handle 5 to a point near its upper end where it branches therefrom in the form of a flexible cord or cable 8; the conduit 7 is preferably concealed during its passage along the handle by being contained in a suitable groove or bore. The end of the cord is provided with a suitable plug or other connection 9 whereby it can be affixed to any convenient outlet, and a switch 10 of any suitable or convenient type is carried by the upper end of the handle above the dust bag 4, and preferably near the point where the flexible cord 8 diverges from the handle.

Upon one side of the handle I provide a pair of spaced shouldered members adapted to have the cable or flexible cord wound thereon; in the present embodiment said members consist of a pair of hooks 12—12 having their prongs projecting away from each other. Both of the hooks are located between the switch and the cleaner, and the switch is located above the end of the dust bag. With this arrangement of parts it is possible for the operator to have the control of the motor always immediately under the hand, so as to permit stopping and starting of the same without the necessity of reaching past and coming into contact with the dust bag, which frequently gives off an amount of fine dust when brushed or struck. Also the flexible cord or cable can be wound upon these hooks when the machine is not in use, thus preventing the wires becoming broken or the insulation destroyed, and also while in use a few turns of the cable can conveniently be left upon these hooks, in case the total length of the same should be greater than necessary for covering the particular surface being cleaned. Whether the cable is all removed from the hooks before the cleaner is put into use, or a portion of it is left wound thereon, the position of the switch 10 permits the ready control of the motor.

Having thus described my invention, what I claim is:—

1. In a device of the character described, a portable casing having electrically operated mechanism therein and also having an operating handle, an electric switch carried by said handle at a point removed from said casing, an electric conduit connecting said switch and the mechanism in the casing and running along the handle, a flexible cord or

cable constituting a second electric conduit extending from said handle and connected through said switch, and a pair of spaced coil-holding clips carried by said handle between said switch and casing.

2. In a suction cleaner, the combination with a portable casing having a pump chamber and a discharge neck, an operating handle secured to said casing, and a dust bag having one end secured to said neck and the other end to said handle, the pumping mechanism being electrically operated, of an electric switch carried by said handle at a point above said dust bag, a flexible cord or cable constituting an electric conduit extending from said cleaner, means carried by the handle between said switch and casing adapted to have a portion of said electric conduit coiled thereon, and a second electric conduit passing along said handle from said switch to said casing.

3. In a suction cleaner, the combination with a portable casing having a pump chamber and a discharge neck, an operating handle secured to said casing, and a dust bag having one end secured to said neck and the other end to said handle, the pumping mechanism being electrically operated, of an electric switch carried by said handle at a

point above said dust bag, a flexible cord or cable constituting an electric conduit connected to said switch and diverging from said handle substantially at said switch, a pair of spaced coil holding members carried by said handle between said switch and casing, and a second electric conduit passing along said handle from said switch to said casing.

4. In a device of the character described, a portable casing having electrically operated mechanism therein and also having an operating handle, an electric switch carried by said handle at a point removed from said casing, an electric conduit connecting said switch and the mechanism in the casing and running along the handle, a flexible cord or cable constituting a second electric conduit connected to said switch, and means carried by said handle between said switch and casing adapted to have a portion of the second electric conduit coiled thereon.

In testimony whereof, I hereunto affix my signature in the presence of two witnesses.

JAMES B. KIRBY.

Witnesses:

ROBERT L. BRUCK,
HAROLD E. SMITH.