United States Patent [19]

Momy

[11] **3,911,518**

[45] **Oct. 14, 1975**

[54] **FLOOR CLEANING DEVICE**

[75] Inventor: **Gerald L. Momy**, Dorval, Canada

[73] Assignee: **The Raymond Lee Organization, Inc.**, New York, N.Y. ; a part interest

[22] Filed: **Mar. 7, 1974**

[21] Appl. No.: **448,901**

[52] **U.S. Cl.** ..... **15/50 R;** 15/260

[51] **Int. Cl.**[2] **A47L 11/03**

[58] **Field of Search**.... 15/49 R, 49 RB, 49 C, 50 R, 15/50 C, 51, 52, 98, 260–264, 320

[56] **References Cited**

UNITED STATES PATENTS

2,148,775	2/1939	Pond	15/49 R
2,397,707	4/1946	Travis	15/50 R
3,409,932	11/1968	George	15/260
3,646,630	3/1972	Russell	15/103

Primary Examiner—Edward L. Roberts

Attorney, Agent, or Firm—Daniel Jay Tick

[57] **ABSTRACT**

A floor cleaning device comprises a housing having an electric motor mounted therein. A pair of spaced open tubs are formed in the housing for storing hot water and cold water, respectively. A plurality of substantially vertically positioned axles are rotatably mounted in the housing and extend from the bottom thereof. Each of the axles is drivably coupled to the motor. Each of a plurality of brush type accessories is adapted to be removably coupled to a corresponding one of the axles for rotation therewith. A handle is affixed to the housing for guiding the housing along a floor. A mop holding device on the handle removably holds a mop thereon. A wringer in the housing wrings a mop.

2 Claims, 4 Drawing Figures

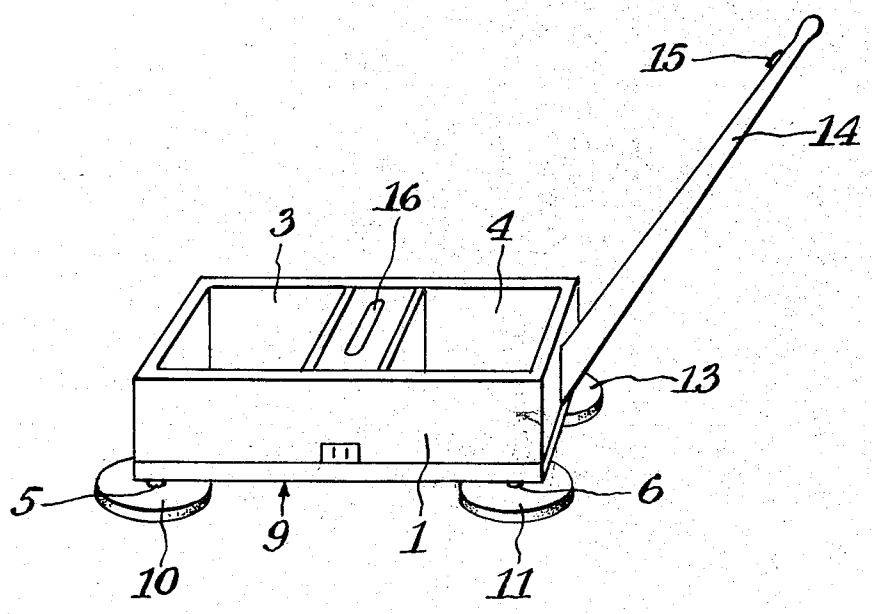
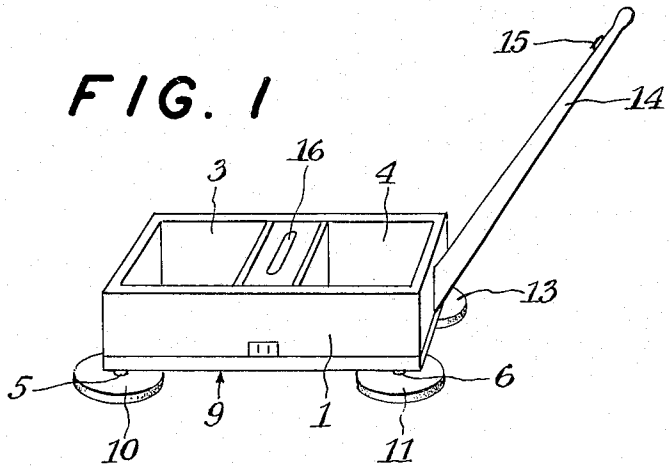


FIG. 1



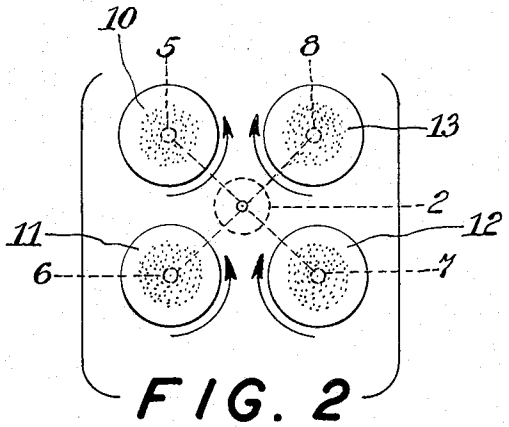


FIG. 2

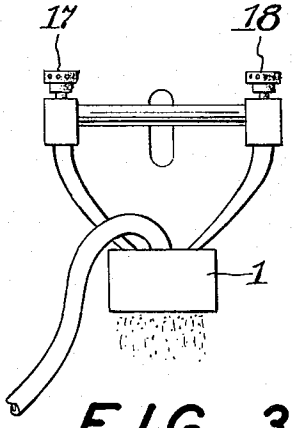


FIG. 3

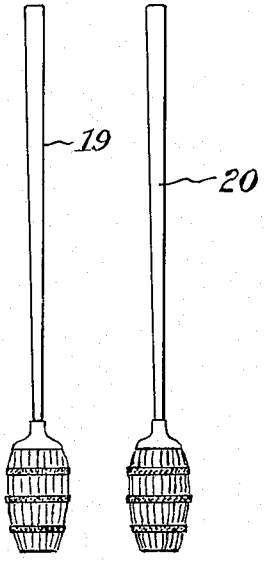


FIG. 4

FLOOR CLEANING DEVICE

DESCRIPTION OF THE INVENTION

The present invention relates to a floor cleaning device.

Objects of the invention are to provide a floor cleaning device of simple structure, which is inexpensive in manufacture and is simple, easy, comfortable, convenient and rapid in use for cleaning a floor with efficiency, effectiveness and reliability.

In order that the invention may be readily carried into effect, it will now be described with reference to the accompanying drawing, wherein:

FIG. 1 is a schematic diagram of an embodiment of the floor cleaning device of the invention;

FIG. 2 is a bottom view of the floor cleaning device of the invention;

FIG. 3 illustrates a method of emptying the tub of the floor cleaning device of the invention and hooking up the water taps via a filter; and

FIG. 4 is a side view of a pair of mops which may be utilized with the floor cleaning device of the invention.

In the FIGS., the same components are identified by the same reference numerals.

As shown in FIG. **1**, the floor cleaning device of the invention comprises a housing **1** having an electric motor **2** (FIG. **2**) mounted therein. A pair of spaced open tubs **3** and **4** are formed in the housing **1** for storing hot water and cold water.

As shown in FIG. **1**, a plurality of substantially vertically positioned axles **5, 6, 7** (FIG. **2**) and **8** (FIG. **2**) are rotatably mounted in the housing **1** and extend from the bottom **9** thereof. Each of the axles **5, 6, 7** and **8** is drivably coupled to the motor **2**, as shown in FIG. **2** by any suitable means such as, for example, drive belts.

A plurality of brush type accessories **10, 11, 12** and **13** (FIG. **2**) are provided. Each of the brush type accessories is adapted to be removably coupled to the corresponding one of the axles **5, 6, 7** and **8** for rotation therewith. The housing **1** is preferably of box-type configuration having four corners. Each of the axles **5, 6, 7** and **8** is mounted at a corresponding one of the corners of the housing **1**.

A handle **14** (FIG. **1**) is affixed to the housing **1** for guiding the housing along a floor. A mop holding clamp **15** is provided on the handle **14** for removably holding a mop thereon.

A wringer **16** is provided in the housing for wringing a wet mop. The motor **2**, as shown in FIG. **2**, is preferably positioned in the housing under the wringer.

FIG. **3** illustrates a method of emptying tubs **3** and **4** of the housing **1** from a pair of faucets **17** and **18**. Low pressure water from the faucets or taps **17** and **18** is supplied to the tubs and empties them. This hookup to the taps is a filter, etc.

FIG. **4** illustrates a pair of mops **19** and **20** which may be utilized with the device of the invention. The mops **19** and **20** are used to wash a surface with water in the tubs **3** and **4** by being dipped in such water and then moved along such surface.

While the invention has been described by means of a specific example and in a specific embodiment, I do not wish to be limited thereto, for obvious modifications will occur to those skilled in the art without departing from the spirit and scope of the invention.

I claim:

1. A floor cleaning device, comprising

a housing having an electric motor mounted therein;

a pair of spaced open tubs formed in the housing for storing hot water and cold water, respectively;

a plurality of substantially vertically positioned axles rotatably mounted in the housing and extending from the bottom thereof, each of the axles being drivably coupled to the motor;

a plurality of brush type accessories each adapted to be removably coupled to a corresponding one of the axles for rotation therewith;

a handle affixed to the housing for guiding the housing along a floor;

mop holding means on the handle for removably holding a mop thereon; and

wringer means in the housing for wringing a mop.

2. A floor cleaning device as claimed in claim **1**, wherein the housing is of box-type configuration having four corners and each of four axles is mounted at a corresponding one of the corners of the housing.

* * * * *