

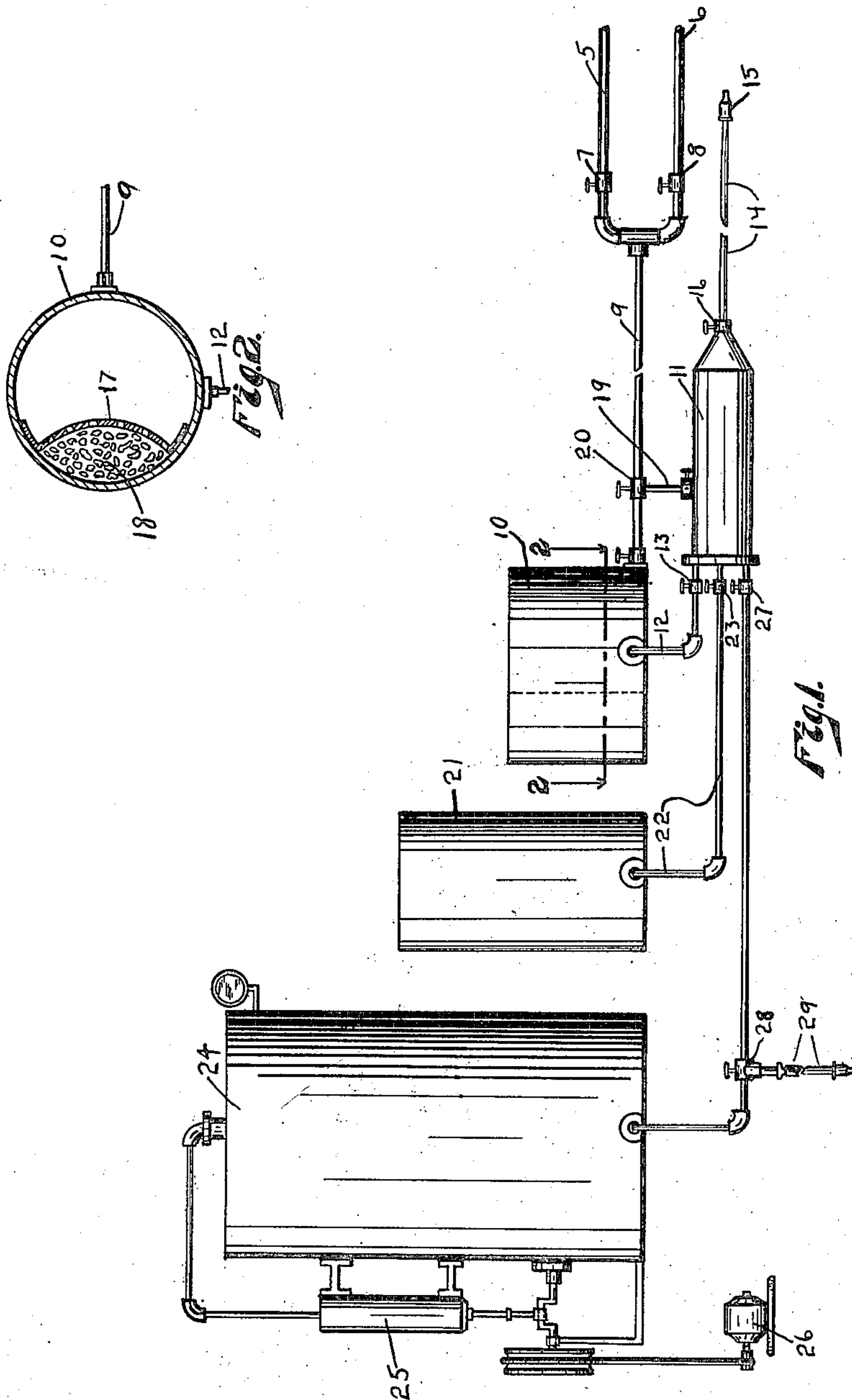
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1,459,136

C. F. BAMBARA

WASHING APPARATUS

Filed April 18, 1921



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UNITED STATES PATENT OFFICE.

CHARLES FEDELS BAMBARA, OF CHICAGO, ILLINOIS.

WASHING APPARATUS.

Application filed April 18, 1921. Serial No. 462,360.

To all whom it may concern:

Be it known that I, CHARLES FEDELS BAMBARA, a citizen of the United States, and a resident of the city of Chicago, county of Cook, and State of Illinois, have invented certain new and useful Improvements in Washing Apparatus, of which the following is a specification.

My invention relates to a washing apparatus and has for its principal object the provision of a construction which will be highly efficient in use.

A further object of my invention is the provision of a washing apparatus whereby the washing fluid employed is forced through a spray or nozzle by the use of compressed air.

Other objects will appear hereinafter.

The invention consists in the combinations and arrangements of parts hereinafter described and claimed.

The invention will be best understood by reference to the accompanying drawings forming a part of this specification, and in which,

Fig. 1 is a diagrammatical elevational view of the invention;

Fig. 2 is a sectional detail view taken substantially on line 2—2 of Fig. 1.

The preferred form of construction as illustrated in the drawing comprises hot and cold water supply pipes 5 and 6 controlled by valves 7 and 8 and terminating into a single supply pipe 9, which is connected to a water supply tank or receptacle 10. By this arrangement of the water supply to the water tank 10 the supply can be regulated by supplying more hot water than cold water or vice versa, or when desired to supply cold or hot water only. A receiving or main mixing tank 11 is arranged to receive the water supply from the water tank 10 and is connected to the said tank by a supply pipe 12 which is controlled by a valve 13. Secured to one end of the receiving tank 11 is a flexible hose 14 which is provided with a nozzle 15, of any suitable construction, and is controlled by a valve 16. Mounted in the water tank 10 is a perforated partition 17 which provides a soap mixing chamber 18 and so arranged that the force of the water supplied to the water tank 10 will dissolve the soap thereby providing a soap water mixture. A supply pipe 19 is also connected to the receiving tank 11 and controlled by a valve 20 so ar-

anged that when it is desired to use clear rinse water, the water is supplied direct to the said receiving tank. A tank 21 containing kerosene or the like is connected to the receiving tank 11 by a supply pipe 22 which is controlled by a valve 23. This affords washing grease, oil or the like which cannot be washed off by the use of water. To afford a greater water or kerosene pressure when the apparatus is operative a compressed air tank 24, having a suitable air pump 25 and driven by a motor 26, is connected to the receiving tank 11 the air supply being controlled by a suitable valve 27. A branch air supply pipe 28 is connected to the air supply pipe and provided with a flexible hose 29 which is used for the purpose of filling tires or the like with air.

The washing apparatus as described is especially designed for washing automobiles or other vehicles or the floors of a garage or the like, and in operation the valves 7 and 8 are opened allowing the desired amount of supply of hot or cold water to flow into the water tank 10. A quantity of soap flakes or the like is provided in the mixing chamber 18 and as the water flows into the said water tank the soap dissolves in the water affording a soap water mixture. After the tank 10 is properly filled and the water properly mixed the valves 7 and 8 are then closed and the valve 13 is opened allowing the flow of water into the receiving tank 11, where it is discharged through the flexible hose 14. In washing an automobile it has been found that the natural force of the water will not remove mud or the like from under the fenders or in other inconvenient places, and to overcome this difficulty the valve 27 controlling the air supply pipe is opened admitting air into the receiving tank 11 and the force of the water is greatly increased and will easily remove the mud or the like. In washing different parts of a vehicle such as transmission case, gears or other parts where oil or grease settles, by opening the valve 23 which controls the supply of kerosene into the receiving tank 11 the grease or oil is quickly and easily washed away. Should a greater force be desired the air supply may be brought into operation and will force the kerosene through the flexible hose with a greater force.

While I have illustrated and described the preferred form of construction for carrying

my invention into effect, this is capable of variation and modification without departing from the spirit of the invention. I, therefore, do not wish to be limited to the precise details of construction set forth, but desire to avail myself of such variations and modifications as come within the scope of the appended claims.

Having described my invention, what I claim as new and desire to secure by Letters Patent is:

1. A washing apparatus including a mixing tank, fluid supply pipes terminating in a single pipe leading to said mixing tank, an air pressure tank, an oil tank, a main mixing tank having a valve controlled discharge, pipe lines affording communication between said tanks and said main mixing tank, and means controlling the passage through said pipe lines whereby the contents of one or more of said tanks can be discharged into said main mixing tank.

2. A washing apparatus comprising a mixing tank, fluid supply pipes terminating in a single supply pipe leading to said mixing tank, a compressed air tank, a main mixing tank having a valve controlled discharge, pipe lines communicating with the main mixing tank and said first named mixing tank and compressed air tank, and valves controlling the passage through said pipe lines whereby the contents either from said first named mixing tank or said compressed air tank can be discharged into said main mixing tank.

3. A washing apparatus comprising a mixing tank, fluid supply pipes terminating in a single supply pipe leading to said mix-

ing tank, a compressed air tank, a main mixing tank having a valve controlled discharge, pipe lines communicating with the main mixing tank and said first named mixing tank and compressed air tank, valves controlling the passage through said pipe lines whereby the contents either from said first named mixing tank or said compressed air tank can be discharged into said main mixing tank, and a pipe opening communication between said main mixing tank and said single supply pipe whereby fluid passing through said fluid supply pipes can be discharged directly into said main mixing tank.

4. A washing apparatus including a mixing tank, fluid supply pipes terminating in a single supply pipe leading to said mixing tank, an air pressure tank, an oil tank, a main mixing tank having a valve controlled discharge, pipe lines affording communication between said tanks and said main mixing tank, means controlling the passage through said pipe lines whereby the contents of one or more of said tanks can be discharged into said main mixing tank, and a pipe opening communication between said main mixing tank and said single supply pipe whereby fluid passing through said fluid supply pipe can be discharged directly into said main mixing tank.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

CHARLES FEDELS BAMBARA.

Witnesses:

JOSHUA R. H. POTTS,
FREDA C. APPLETON.