

# PORTABLE WASHING CART

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***ABSTRACT: A portable washing cart comes with a pump that gets water through a tube connection and pumps this water into an injector via a pressure relief system. The injector gets a liquid or similar detergent and mixes it with the water. The mixture is delivered to a hand-operated spray nozzle. The detergent and water ratio can vary depending on the rate of dispense of liquid through the nozzle.***

**Keywords: Cart, Nozzle, Electric pump, Injector unit, Pressure relief unit, Flexible tube, Wheels.**

## INTRODUCTION

Different establishments like institutions, cafes, hospitals or inspectorates, have larger areas where cleaning is often needed [1]. Those areas are typically cleaned with a common or similar mop [2]. Although this cleaning might be effective, it takes a great deal of time and effort [3]. It is often difficult to get staff to do this work [4]. Even if such staff is available, their salaries account for a relative portion of the net cleaning costs [5]. Pressure washing or energy washing involves the use of high pressure water sprayed on surfaces and subjects such as houses, cars and cement surfaces, to remove loose paint, mold, grime, dust, mud, chewing gum or dirt. The quantity of a pressurizer is expressed in gallons or liters per minute, often in the pump and not variable. The pressure is in pounds per inch, Pascal or bar, but can be adjusted by setting the unloader valve into the pump.

## WORKING

The portable washing cart moves on rolling using wheels [6]. An electric pump is attached in the cart, and a flexible tube connected between the electric pump [7]. The electric pump outlet is linked to a pressure relief unit and an injector unit [8]. In order to blend the washing material with the water in proportions that differ depending on the speed of water flow from injector unit is linked to the electric pump outlet for supplying the fluid detergent or other washing material [9]. The injector unit is attached to a spray type of nozzle, preferably holding and operated by single hand [10]. Using the nozzle a mixture of water and detergent is sprayed [11]. By adjusting the flow speed of the nozzle we can change the water and detergent ratio.

## RESULT & CONCLUSION

A mobile cart with detergent and water for washing where an electric pump is used to pump it. A pressure relief unit and injector unit is utilized for proper flow rate and spraying required ratio of detergent and water mixing for washing. A portable washing cart comes with a pump that gets water through a tube connection and pumps this water into an injector via a pressure relief system. The injector gets a liquid or similar detergent and mixes it with the water. The mixture is delivered to a hand-operated spray nozzle. The detergent and water ratio can vary depending on the rate of dispense of liquid through the nozzle.

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