

CHAPTER -1

INTRODUCTION

Window cleaning, or window washing, is the cleaning of architectural glass used for structural, lighting, or decorative purposes, including the restoration of good hygiene or removal of litter or dirt.

Cleaning windows of tall buildings is much easier said than done. First of all, most windows are too tall to be reached from outside, and a person would need use hanging scaffold out from inside to clean it manually. While trying to clean the outer surface of a window the person need to be secure by using safety ropes and also it is required adopt to high heights. Sometimes it becomes very difficult to clean perfectly in such conditions. Taking all of these factors into account would lead one to believe that a machine, which would clean the outside of the window automatically or by remote control, would be a profitable product.

This project aims at developing very cost effective, safe and efficient method of cleaning of glasses of tall buildings in urban society. This is a special purpose device which can work under any climate conditions and thereby remove man from working in very dangerous area under drastic climate conditions and height. Further as physical involvement of human from cleaning area is removed hence stress level on workers will be definitely reduced and safety considerations are improved. It is very adaptable and can deliver same performance for different working areas. The construction of the device is very simple and it comprises of simple mechanisms and equipment, at the same time there is no need to compromise with cost.

Though Window cleaning platform, or suspended scaffold, also known as a swing stage as safer than ladders, the Health and Safety Executive acknowledges that system spill lots of water which either the window cleaner could slip on. Such cheap and safe method of cleaning would really create market boom. It can be built easily and can be used anywhere. Also it requires very less power and raw materials are easily available. Further mass production would definitely reduce cost. Device is first of its kind so degree of competition would be less since device is cost-effective too.

Cleaning of window glasses of tall buildings, as known is a very cumbersome and time taking process when to be done on a large scale. This consuming of time can be reduced to a considerably large extent by the use of a window cleaning machine.