

## ABSTRACT

### FABRICATION OF AUTOMATIC FOOT DUST CLEANING MECHANISM

The foot dust cleaning brush arrangement is placed under the foot rest. The foot rest is mounted on the base frame in such a way that any person stands on it the foot rest will go down for the weight to a small distance. Below the foot rest a limit switch is placed. When a person stand on the foot rest, the foot rest goes down and presses the limit switch and the corresponding signal is sent to the motor and it is switched ON. The motor shaft is coupled with the brush arrangement with help of belt and pulley. When the motor runs the brush arrangement also rotates to clean the dust under the foot with the help of belt drive. When the person on the foot rest gets down the limit switch is released and the signal sent is cut and switch off the motor. With the help of limit switch the motor is turned ON and OFF which helps to save power. Depends upon the motor speed the dust can be removed cleanly. .

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