

## Pedal Powered Washing Machine

Seeking parties interested in licensing and commercializing of technology.

### Applications:

- This invention relates to a washing machine for washing clothes and other domestic fabrics which is pedal-powered and uses no electricity.

### Technology Description:

The invention relates to a device for transforming the human effort into the rotating motion. It comprises of a bicycle pedal, a chain for conveying the motion to the free wheels from the pedal, a free wheel which is connected to the chain which guarantees unidirectional, slip-free transfer of rotary motion. the shaft is keyed with the free wheel on one side and is welded with the inner drum on the other side. The outer drum is made of plastic which carries the water. The inner drum is a perforated drum made of an alloy material and this one carries the clothes to be washed. Two Plummer blocks are used as the bearing support for the shaft carrying the load. This makes the rotation of the drum lot easier. Both the drums have doors for loading and unloading the clothes, a stand is provided so that the machine is firm enough to withstand the jerks. The washing is done through tumbling action by rotating the inner drum horizontally. The perforated drum mechanism as well as its horizontal positioning considerably reduces the effort required to rotate the drum. An agitator rod is not required in this mechanism, which considerably reduces the cost of production.

### Advantages of the Technology:

- The pedal-powered washing machine doesn't require electricity for its functioning.
- The operator doesn't need to submerge her hands in the soapy water.
- The washing machine is economical as it made up of recycled bicycle parts.

### Development Status:

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**Technology Transfer from the institute:** For more details

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