

## Title: Modern Pesticide Sprinkler

### Team Details:

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### Abstract:

Agriculture plays a vital role in India's economy. Over 58 per cent of the rural households depend on agriculture as their principal means of livelihood. The application of pesticides and fertilizer sprinklers in agricultural areas is of prime importance for crop yields. Different types of methods are used in India for spraying of pesticides. But most of the farmers prefer hand pump sprayers.

The use of hand pump is becoming increasingly common in carrying out this task mainly because of its moderate and reasonable value compared to other spraying operations. However, some factors may reduce the spraying efficiency, or even cause time and labor consumption. The person operating the sprayer need to carry sprayer equipment continuously, on shoulders while spraying, it takes hours to spray pesticides in vast expanse of land, which gives bad effects to body.

So here, we describe a model based on propelling the pump on wheels to avoid carrying of sprayers on shoulders. The process of spraying the chemicals is controlled by rotation of the wheel on which the pump is mounted. This model works on the principle of converting rotary motion into reciprocating motion. The aim of this solution is to decrease the burden of person while spraying of pesticide. It also shortens the man power and time.

### Photos:

