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Research & Innovation

विज्ञान एवं प्रौद्योगिकी विभाग
DEPARTMENT OF
SCIENCE & TECHNOLOGY

BITS Pilani
TECHNOLOGY
ENABLING
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Granted **IN201911034573**

A portable handheld electrochemical discharge machining device

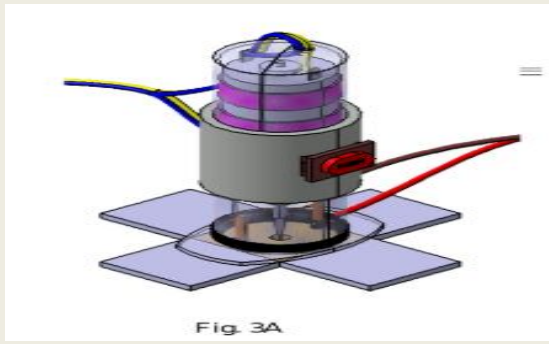

Fig. 3A

NEED

There is a need for a portable, convenient-to-use electrochemical discharge machining (ECDM) device to deburr substrates precisely without damaging them.

SOLUTION

The invention offers a portable handheld ECDM device with specific components for efficient and precise deburring.

INNOVATION

Introducing a portable handheld ECDM device with insulated shafts, auxiliary electrodes, controlled voltage, and protective measures for motor.

MARKET ANALYSIS

Market: Manufacturing industries, especially those working with fiber reinforced plastics (FRPs) such as automobile and aerospace industries

CAGR: Estimated to be around 6-8%

Potential Indian Clients: Automotive manufacturers, aerospace companies, industrial manufacturing firms dealing with FRPs

WHY INVEST?

Electrochemical Discharge Machining (ECDM)
Hybrid machining
Fiber-reinforced plastics (FRPs)
Material removal rate (MRR)

AT A GLANCE

- Current TRL NA
- Funded by NA
- IPC B23H, B24B, C04B, G06K, H05K
- Domain
  Manufacturing Technology

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