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Research & Innovation

विज्ञान एवं प्रौद्योगिकी विभाग
DEPARTMENT OF
SCIENCE & TECHNOLOGY

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TECHNOLOGY
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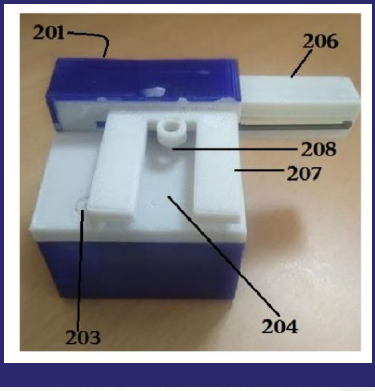
Granted **IN201911049248**

A microfluidic electro-viscometer to determine relative viscosity of a fluid



NEED

Existing viscometers are bulky, expensive, and require trained personnel, necessitating a need for a portable, cost-effective, and user-friendly viscosity measurement device.

SOLUTION

The invention presents a microfluidic electro-viscometer for real-time viscosity measurement, offering portability, affordability, and ease of use.

INNOVATION

The development of a microfluidic electro-viscometer with embedded micro-electrodes and chromatograph paper enables precise and efficient viscosity determination in a compact and accessible device.

MARKET ANALYSIS

Market: Portable and Real-time Viscometry Devices

CAGR: Estimated to be around 8-10% based on increasing demand for miniaturized and portable analytical tools.

Potential Indian Clients: Pharmaceutical companies, medical diagnostics labs, research institutions, food processing companies, automotive industry, and biofuel producers.

WHY INVEST?

Microfluidic
Electro-viscometer
Microcontroller
3D printing

AT A GLANCE

- Current TRL NA
- Funded by NA
- IPC B01L, C08G, G01N
- Domain
  Analytical Tools for Biological and Chemical Sciences

Goel Sanket, Puneeth S B

Department of, Electrical Engineering
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For more information, reach out to (contact person), (designation), (organization) at (email ID) and (phone number)

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