Microfluidics-based Multiplex Droplet Analyser & Sorter

- **TECHNOLOGY**: Detection of multiple fluorophore labelled biomarkers is a critical requirement in several biomedical research and diagnostic applications. The traditional flow cytometers, used for fluorophore-based biomarker detection, are limited by their a) high costs, b) bulkiness, c) larger sample volume requirement and d) clinical sample cross-contamination, often restricting their usage to few hospitals, research labs and diagnostic laboratories. A rapid, cost-effective, simplified, bench-top device for multiple biomarker detection and sorting with low clinical sample volumes is thus urgently needed to ensure efficient healthcare, agri and animal health solutions. Our patented technology is a novel, miniaturized, scalable multiplex fluorescence detection platform for high-throughput optical analysis and on-demand sorting of single cells encapsulated in microfluidic droplets

- **DOMAIN**: Diagnostics and Devices

- **APPLICATIONS:** Multiplexed FL detection and sorting of single cells encapsulated within droplets enables unprecedented solutions in the fields of precision medicine, single-cell genomics, point-of-care diagnostics, immunotherapies etc

- **ADVANTAGES**: The technology enables first and only non-imaging-based microfluidic fluorescence-detection and sorting of single cells encapsulated in droplets.

- **IP STATUS**: PCT/IB2020/056297 filed on July 2020 and nationalized in EP, USA and India

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