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(71) Applicant: **ORIBIOTECH LTD** [GB/GB]; 35 Beaufort Court, Admirals Way, South Quay Waterside, London Greater London E14 9XL (GB).

(72) Inventors: **VERAITCH, Farlan**; Oribiotech Ltd, 35 Beaufort Court, Admirals Way, South Quay Waterside, London Greater London E14 9XL (GB). **PALMER, Jason**; 2 Royce Close, Yaxley, Peterborough Cambridgeshire PE7 3QY (GB). **GOWLER, Vince**; 10 Burma Road, Duxford, Cambridge Cambridgeshire CB22 4QP (GB). **RICKETT, Toby**; 8 Milfield, Cottenham, Cambridge Cambridgeshire CB24 8RA (GB). **RAIMES, William**; Oribiotech Ltd, 35 Beaufort Court, Admirals Way, South Quay Waterside, London Greater London E14 9XL (GB). **AMINI, Arman**; Oribiotech Ltd, 35 Beaufort Court, Admirals Way, South Quay Waterside, London Greater London E14 9XL (GB).

(74) Agent: **HGF LIMITED**; 1 City Walk, Leeds West Yorkshire LS11 9DX (GB).

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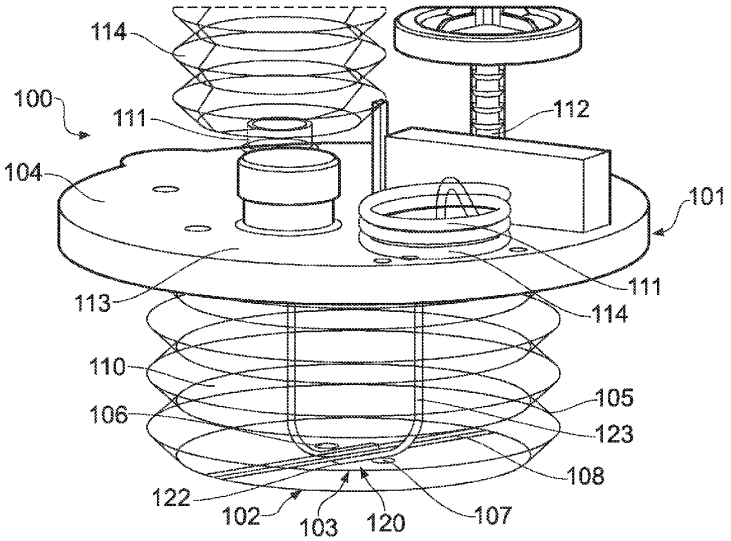


FIG. 1

(57) Abstract: The present invention provides a bioreactor (100) for cell processing. The bioreactor (100) comprises a container (110) having a base section (102) comprising a transparent or translucent sensor window (103), a top section (101) arranged opposite to the base section (102) and comprising a fluid inlet and a fluid outlet, and a sidewall (105) extending between the base section (102) and the top section (101) and defining an internal volume of the container adapted to hold a cell suspension. At least one optical element (106, 107) disposed on the sensor window (103) within the internal volume, the optical element (106, 107) being adapted to emit a fluorescence signal in response to incident light, the fluorescence signal being associated with one or more parameters of the cell suspension.

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