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(71) Applicants: **ETH ZÜRICH** [CH/CH]; ETH Transfer, Raemistrasse 101, HG E36, 8092 Zurich (CH). **UNIVERSITÄT ZÜRICH** [CH/CH]; Prorektorat Forschung, Rämistrasse 71, 8006 Zurich (CH).

(72) Inventors: **ACETO, Nicola**; c/o ETH Transfer, Raemistrasse 101, HG E36, 8092 Zurich (CH). **SAINI, Massimo**; c/o ETH Transfer, Raemistrasse 101, HG E36, 8092 Zurich (CH). **RING, Alexander**; c/o Universität Zürich, Prorektorat Forschung, Rämistrasse 71, 8006 Zurich (CH). **WICKI, Andreas**; c/o Universität Zürich, Prorektorat Forschung, Rämistrasse 71, 8006 Zurich (CH).

(74) Agent: **TEUTEN, Andrew** et al.; Sagittarius IP, Marlow International, Parkway, Marlow SL7 1YL (GB).

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(54) Title: NOVEL PROCESS

(57) Abstract: There is provided inter alia a process for the isolation of circulating tumour cell (CTC) clusters and/or circulating tumour cell-white blood cell (CTC-WBC) clusters comprising: (i) collecting an apheresis sample from a patient; (ii) debulking the apheresis sample of excess white blood cells; (iii) separating CTC clusters and/or CTC-WBC clusters from other components of the debulked apheresis sample using microfluidic separation; and (iv) isolating separated CTC clusters and/or CTC-WBC clusters; wherein the debulking step comprises a flow-based process where flow is driven by gravity and/or minimal applied artificial pressure; wherein the microfluidic separation is performed using a microfluidics device capable of separating CTC clusters and/or CTC-WBC clusters from other components of the debulked apheresis sample.