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(54) **Title:** PROCESS FOR THE MANUFACTURING OF PROTEIN-ASSOCIATED EXTRACELLULAR VESICLES

FIGURES

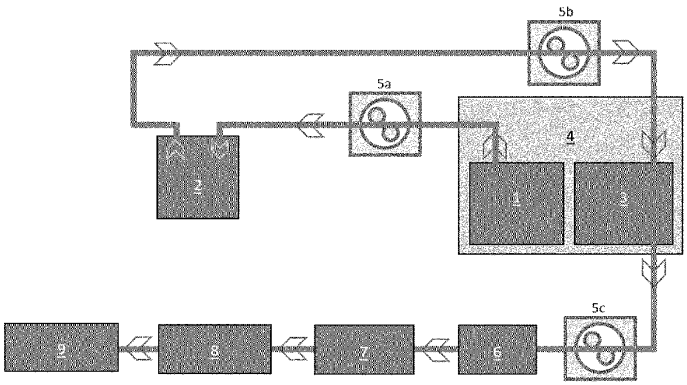


Fig. 1

(57) **Abstract:** The current invention relates to a process for the manufacturing of extracellular vesicles (EVs) associated with proteins, derived from mesenchymal stromal cells (MSCs), said process comprises the steps of: - Purifying EVs from a cell medium comprising MSCs, wherein said purifying occurs via at least one filtration step of said medium; followed by - a concentration step of the filtrate of said at least one filtration step, wherein said EVs are concentrated by means of tangential flow filtration in a TFF device; and - wherein during said TFF step the EVs are associated with one or more exogenous proteins inside of said TFF device, or in a vessel fluidly connected to said TFF device to which said EVs are transferred from said TFF. The current invention also relates to a pharmaceutical composition comprising a therapeutically effective amount of EVs associated with proteins, and the use thereof.

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