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(54) **Title:** A METHOD OF LYOPHILIZATION OF MESENCHYMAL STROMAL CELL (MSC) SECRETOME FOR BIOPROTEINS AND BIOACTIVES PRESERVATION

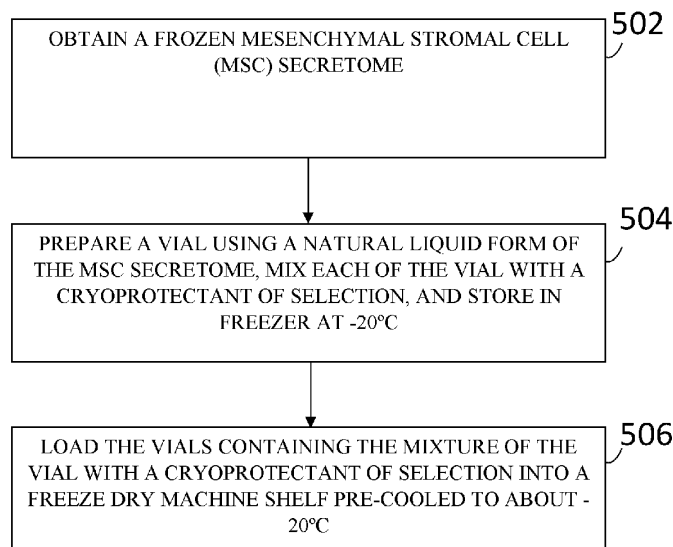


FIGURE. 5

(57) **Abstract:** The invention relates to a method of lyophilization of Mesenchymal Stromal Cell (MSC) secretome for bioproteins and bioactives preservation. The method includes obtaining frozen MSC secretome. The method also includes preparing a vial using natural liquid form of the MSC secretome and mixing each of the vial with a cryoprotectant of selection and stored at -20°C (pre-treatment stage). The method also includes loading the vials containing the mixture into a freeze dry machine shelf pre-cooled to about -20°C (pre-cool stage).

[Continued on next page]

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