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(54) Title: METHOD FOR DETERMINING THE SHEAR STRESS SENSITIVITY OF CELLS DURING A CULTIVATION PROCESS

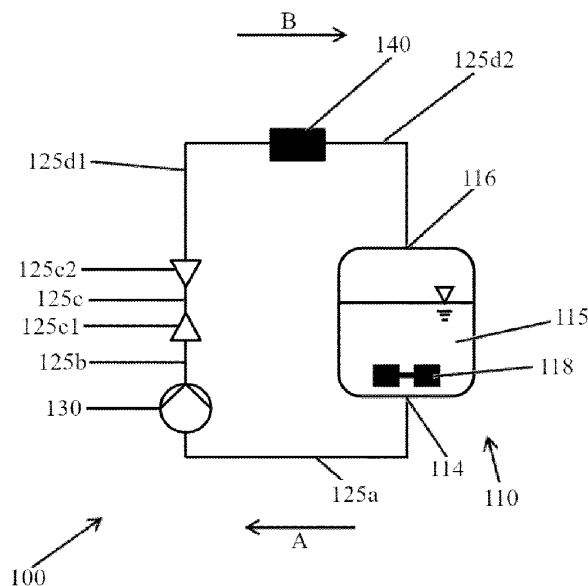


Fig. 1A

(57) Abstract: The present disclosure is directed to a method for determining the shear stress sensitivity of eukaryotic or prokaryotic cells in a shear stress sensitivity device (100) during a cultivation process, comprising: (1) providing a shear stress sensitivity device (100), (2) selecting cells, liquid culture medium, cultivation mode and conditions; (3) selecting one, two or three stress parameters; (4) characterizing the shear stress sensitivity device (100) for the maximum shear stress by a calibration method; (5) performing the same cultivation process several times and measuring one or more performance characteristics of the cells during each run and generating a curve for each performance characteristic in each run over time; (6) performing the cultivation process as a control having a lower maximum shear stress than in step (5); and (7) selecting the curve from the set of curves of step (5) that is closest to the control curve while obtaining the shear stress sensitivity or limit for the cells.

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