

Title (en)

APPARATUS AND METHOD FOR VESICLE PORATION, LOADING AND FUSION.

Title (de)

GERÄT UND METHODE ZUR BILDUNG VON POREN IN VESIKELN, SOWIE VERFAHREN ZUR LADUNG UND ZUM SCHMELZEN.

Title (fr)

DISPOSITIF ET PROCEDE DE FORMATION DE PORES DANS DES VESICULES, AINSI QUE DE CHARGEMENT ET DE FUSION DESDITES VESICULES.

Publication

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Application

EP 87903578 A 19870508

Priority

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Abstract (en)

[origin: WO8706851A1] A high speed, high voltage apparatus using homogeneous, uniform electric fields to treat vesicles carried in a suspension. In one embodiment, parallel electrodes (14 and 16) are used to perform dielectrophoretic bunching, rotational prealignment, electro-fusion, and poration of vesicles. In another embodiment, a magnetic electrodeless apparatus is used to perform the treatment. Both embodiments are driven by a high speed, high voltage electronic supply system that utilizes a triggered ionization breakdown delivery system (41).

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CPC (source: EP)

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Citation (search report)

- [XD] NATURE, vol. 268, no. 5619, 4th August 1977, pages 438-441, London, GB; K. KINOSITA et al.: "Formation and resealing of pores of controlled sizes in human erythrocyte membrane"
- [XD] BIBLIOTHECA HAEMATOLOGICA, no. 51, 1985, pages 108-114, Karger, Basel, CH; T.Y. TSONG et al.: "Use of voltage pulses for the pore opening and drug loading, and the subsequent resealing of red blood cells"
- [XD] PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE USA, vol. 74, no. 5, May 1977, pages 1923-1927, Washington, D.C., US; K. KINOSITA et al.: "Hemolysis of human erythrocytes by a transient electric field"
- See references of WO 8706851A1

Designated contracting state (EPC)

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