

Title (en)
NANOPORE FABRICATION

Title (de)
HERSTELLUNG VON NANOPOREN

Title (fr)
FABRICATION DE NANOPORES

Publication
EP 3947730 A4 20230208 (EN)

Application
EP 20777890 A 20200325

Priority
• IL 2020050356 W 20200325
• US 201962823065 P 20190325

Abstract (en)
[origin: WO2020194303A1] Systems comprising a light source, thin membrane immersed in an aqueous solution and a system to direct and focus light from the light source to a spot on the membrane are provided. Methods of thinning and etching a membrane are also provided, as are membranes comprising a nanopore with a Gaussian curve shaped cross-section.

IPC 8 full level
C12Q 1/6869 (2006.01); **B81C 1/00** (2006.01); **G01N 21/63** (2006.01); **G01N 33/487** (2006.01)

CPC (source: EP US)
B01D 67/0053 (2013.01 - EP); **B01D 67/006** (2013.01 - EP); **B01D 67/009** (2013.01 - EP); **B01D 69/108** (2022.08 - EP); **B01D 69/12** (2013.01 - EP US); **B01D 71/0215** (2022.08 - EP US); **B01D 71/024** (2013.01 - EP US); **B01D 71/025** (2013.01 - EP); **B81C 1/00087** (2013.01 - EP); **B01D 2323/34** (2013.01 - EP); **B01D 2323/42** (2013.01 - EP); **B01D 2325/04** (2013.01 - EP)

Citation (search report)
• [X] US 2018043310 A1 20180215 - BUSTAMANTE JOSE [CA], et al
• [X] YANWEN YUAN ET AL: "Sub-20 nm Nanopores Sculptured by a Single Nanosecond Laser Pulse", ARXIV.ORG, CORNELL UNIVERSITY LIBRARY, 201 OLIN LIBRARY CORNELL UNIVERSITY ITHACA, NY 14853, 21 June 2018 (2018-06-21), XP081238755
• [XI] TAL GILBOA ET AL: "Optically-Monitored Nanopore Fabrication Using a Focused Laser Beam", SCIENTIFIC REPORTS, vol. 8, no. 1, 27 June 2018 (2018-06-27), XP055500930, DOI: 10.1038/s41598-018-28136-z
• See also references of WO 2020194303A1

Designated contracting state (EPC)
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DOCDB simple family (publication)
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