

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)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

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**WO 2020194303 A1 20201001**; **WO 2020194303 A9 20211223**; EP 3947730 A1 20220209; EP 3947730 A4 20230208

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**IL 2020050356 W 20200325**; EP 20777890 A 20200325