

Title (en)  
SYSTEM FOR CONTROLLING MICROPARTICLE MOVEMENT

Title (de)  
SYSTEM ZUR STEUERUNG DER MIKROPARTIKELBEWEGUNG

Title (fr)  
SYSTÈME DE COMMANDE DE MOUVEMENT DE MICROPARTICULES

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Application  
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Abstract (en)  
The present invention provides a system for moving a particle of interest in a microfluidic channel, using a second, actuatable particle. The second particle may be actuated using e.g. a magnetic field or light, resulting in an actuated state of the second particle, whereby movement of the particle of interest is initiated.

IPC 8 full level  
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Citation (applicant)  

- WO 2019048714 A2 20190314 - EVORION BIOTECHNOLOGIES GMBH [DE]
- WO 2020183015 A1 20200917 - EVORION BIOTECHNOLOGIES GMBH [DE]
- JUNKER, J.PVAN OUDENAARDEN, A., CELL, vol. 157, 2014, pages 8 - 11
- SALIBA, A.-E. ET AL., NUCLEIC ACIDS RESEARCH, vol. 42, no. 14, 2014, pages 8845 - 8860
- CHEN, S. ET AL., JOURNAL OF IMMUNOLOGICAL METHODS, vol. 426, 2015, pages 56 - 61
- BADUR, M.G. ET AL., BIOTECHNOLOGY JOURNAL, vol. 10, 2015, pages 1600 - 1611
- HASANI-SADRABADI, M.M., MATERIALS HORIZONS, vol. 7, 2020, pages 3028 - 3033
- GOMEZ-SJOBERG, R. ET AL., ANALYTICAL CHEMISTRY, vol. 79, no. 22, 2007, pages 8557 - 8563
- TAN, W.-H.TAKEUCHI, S., PNAS, vol. 104, no. 4, 2007, pages 1146 - 4451
- MULAS, C. ET AL., LAB ON A CHIP, vol. 20, 2020, pages 2580 - 2591
- VALIHRACH, L. ET AL., INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, vol. 19, 2018, pages 807 - 826

Citation (search report)  

- [X] WO 2014138715 A1 20140912 - UNIV DUKE [US]
- [X] WO 2020041480 A1 20200227 - UNIV CALIFORNIA [US], et al
- [X] US 2019227021 A1 20190725 - HAN KI-HO [KR], et al
- [A] US 2020094251 A1 20200326 - BROUZES ERIC [US], et al

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