

Title (en)

SYNTHESIZING AND SCREENING MOLECULAR DIVERSITY

Title (de)

DIE SYNTHESE UND UNTERSUCHUNG MOLEKULARER DIVERSITÄT

Title (fr)

SYNTETISATION ET CRIBLAGE DE DIVERSES MOLECULES

Publication

**EP 0726906 A4 19981007 (EN)**

Application

**EP 95902404 A 19941102**

Priority

- US 9412347 W 19941102
- US 14688693 A 19931102
- US 14967593 A 19931102

Abstract (en)

[origin: WO9512608A1] A device and method for efficiently synthesizing diverse molecular products on substrates. A parent vessel (200) contains a suspension of substrates. The suspension is pressurized with argon and transferred to a plurality of reaction vessels (201-209) in one or more reaction vessel banks where monomer addition reactions take place. Optionally, the substrates may be tagged with a tag monomer. A vortexing motor (300) vortexes the contents of reaction vessels (201-209) during monomer addition reactions to enhance synthesis. After the desired monomer and/or tag monomer addition reaction, the suspension is pressurized with argon and transferred back to parent vessel (200) for mixing. Thereafter, the suspension may be pressurized with argon and reallocated among reaction vessels (201-209) for further synthesis.

IPC 1-7

**C07K 1/04; C07K 1/06; C08F 2/06; C12M 1/00; C12N 15/11; C12Q 1/68; G01J 1/42; G01N 21/62**

IPC 8 full level

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CPC (source: EP)

**B01J 19/0046 (2013.01); C07H 21/00 (2013.01); C07K 1/047 (2013.01); C12Q 1/6811 (2013.01); C12Q 1/6813 (2013.01); C12Q 1/6874 (2013.01); B01J 2219/00286 (2013.01); B01J 2219/00308 (2013.01); B01J 2219/00313 (2013.01); B01J 2219/00389 (2013.01); B01J 2219/00412 (2013.01); B01J 2219/00418 (2013.01); B01J 2219/00423 (2013.01); B01J 2219/00466 (2013.01); B01J 2219/00484 (2013.01); B01J 2219/00495 (2013.01); B01J 2219/005 (2013.01); B01J 2219/00545 (2013.01); B01J 2219/00547 (2013.01); B01J 2219/00554 (2013.01); B01J 2219/00572 (2013.01); B01J 2219/00574 (2013.01); B01J 2219/00585 (2013.01); B01J 2219/0059 (2013.01); B01J 2219/00592 (2013.01); B01J 2219/00596 (2013.01); B01J 2219/00689 (2013.01); B01J 2219/00695 (2013.01); B01J 2219/00698 (2013.01); B01J 2219/0072 (2013.01); B01J 2219/00722 (2013.01); B01J 2219/00725 (2013.01); B01J 2219/00731 (2013.01); C40B 40/06 (2013.01); C40B 40/10 (2013.01); C40B 40/12 (2013.01); C40B 60/14 (2013.01)**

Citation (search report)

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- [A] EP 0529504 A2 19930303 - SHIMADZU CORP [JP]
- [X] RONALD N. ZUCKERMANN ET AL.: "Design, construction and application of a fully automated equimolar peptide mixture synthesizer", INTERNATIONAL JOURNAL OF PEPTIDE AND PROTEIN RESEARCH., vol. 40, no. 6, December 1992 (1992-12-01), COPENHAGEN DK, pages 497 - 506, XP000325062
- See references of WO 9512608A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

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