

Title (en)

MODULAR CHEMICAL PRODUCTION SYSTEM INCORPORATING A MICROREACTOR

Title (de)

MODULARES CHEMISCHES PRODUKTIONSSYSTEM MIT EINEM MIKROREAKTOR

Title (fr)

SYSTEME DE PRODUCTION CHIMIQUE MODULAIRE UTILISANT UN MICROREACTEUR

Publication

**EP 1286761 A2 20030305 (EN)**

Application

**EP 01935559 A 20010515**

Priority

- US 0115738 W 20010515
- US 57822400 A 20000524

Abstract (en)

[origin: WO0189681A2] A modular chemical production system having a microreactor for producing a product by reacting two or more reactants. Modularization enables components such as controllers, pumps, valves, microreactors, and processing modules to be added or removed from the system as required to produce a desired product. The system includes a control module, and a reaction module having a mixing volume and a reaction volume. Various pumping modules and residence time modules may also be included in the system. Quick connect/disconnect fittings enable modules to be readily changed if malfunctioning, or to produce a different product, or quantity. A database includes optimal parameters for a plurality of different reactions yielding different chemical products. The user selects a desired product and amount, provides the reactants, solvents, and heat transfer media supplies, and the control module operates the system to automatically produce the product until the desired amount is obtained.

IPC 1-7

**B01J 19/00**

IPC 8 full level

**B81B 7/00** (2006.01); **B01J 19/00** (2006.01)

CPC (source: EP)

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Citation (search report)

See references of WO 0189681A2

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