Title (en)

MICROWAVE REACTOR FOR CONTINUOUS TREATMENT BY MICROWAVES OF A FLOWING FLUID MEDIUM

Title (de)

MIKROWELLENREAKTOR ZUR KONTINUIERLICHEN BEHANDLUNG EINES STRÖMENDEN FLUIDMEDIUMS DURCH MIKROWELLEN

Title (fr)

RÉACTEUR À MICRO-ONDES POUR UN TRAITEMENT CONTINU PAR MICRO-ONDES D'UN MILIEU FLUIDIQUE EN ÉCOULEMENT

Publication

EP 3884736 A1 20210929 (FR)

Application

EP 19839638 A 20191121

Priority

- FR 1871666 A 20181121
- FR 2019052779 W 20191121

Abstract (en)

[origin: CA3118203A1] Microwave reactor (1,1') comprising: - a flow tube, transparent to microwaves, extending longitudinally along a flow axis (20) for a fluid medium flow; - an input waveguide (4) extending along a propagation axis (40) orthogonal to the flow axis, having a rectangular cross-section with two large sides parallel to the flow axis and two small sides orthogonal to the flow axis; - an enclosure (3) inside which the flow tube extends, made of a material reflective to microwaves, having a lateral dimension greater than the small dimension of the small sides of the input waveguide, the input waveguide being transversely fixed on the enclosure which has an input window surrounded by the input waveguide for propagation of microwaves through the input window to the inside of the enclosure.

IPC 8 full level

H05B 6/70 (2006.01); **H05B 6/80** (2006.01)

CPC (source: EP US)

H05B 6/701 (2013.01 - EP US); **H05B 6/802** (2013.01 - EP US)

Designated contracting state (EPC)

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Designated extension state (EPC)

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DOCDB simple family (publication)

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FR 1871666 A 20181121; CA 3118203 A 20191121; CN 201980076880 A 20191121; EP 19839638 A 20191121; FR 2019052779 W 20191121; US 201917295622 A 20191121