

Title (en)

METHOD AND DEVICE FOR PRODUCING A FREE DISPERSION SYSTEM.

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES FREI DISPERSEN SYSTEM UND EINRICHTUNG ZUR DURCHFÜHRUNG DES VERFAHRENS.

Title (fr)

PROCEDE ET DISPOSITIF POUR LA PRODUCTION D'UN SYSTEME LIBRE DE DISPERSION.

Publication

EP 0644271 A4 19950316 (DE)

Application

EP 92903375 A 19911129

Priority

SU 9100251 W 19911129

Abstract (en)

[origin: US5492654A] A method of obtaining a free disperse system and a device for producing the cavitation effect is provided in which the passage of a hydrodynamic flow through a channel internally accommodating a baffle body providing a local contraction of the flow in at least two sections and forming a cavitation field downstream of the body. The ratio of velocity of the flow at each of the sections to the velocity of a free disperse system at the outlet of the channel is maintained equal to 2.1 and the degree of cavitation is maintained at a level equal to at least 0.5. A cavitation device comprises the baffle body including at least two elements providing generation of their own cavitation fields different in the degree of cavitation. The degree of cavitation is determined by the ratio of a characteristic length of the cavitation field to the size of a baffle body in the cross-section thereof in the place of a local contraction, is determined by the size and shape of the baffle body, the size of the chamber containing the baffle body, the pressure range induced, and the flow rate of the fluid. The invention may preferably be used for preparation of emulsions.

IPC 1-7

C22F 1/00

IPC 8 full level

B01F 5/06 (2006.01)

CPC (source: EP US)

B01F 25/431 (2022.01 - EP US); **B01F 25/43197** (2022.01 - EP US); **B01F 25/434** (2022.01 - EP US)

Citation (search report)

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Designated contracting state (EPC)

DE FR GB SE

DOCDB simple family (publication)

US 5492654 A 19960220; EP 0644271 A1 19950322; EP 0644271 A4 19950316; WO 9413392 A1 19940623

DOCDB simple family (application)

US 28492294 A 19940802; EP 92903375 A 19911129; SU 9100251 W 19911129