

Title (en)

Method and apparatus for preparing emulsions.

Title (de)

Verfahren und Vorrichtung zum Herstellen von Emulsionen.

Title (fr)

Procédé et dispositif pour préparer des émulsions.

Publication

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Application

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Priority

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Abstract (en)

Emulsions of immiscible liquids are prepared employing apparatus comprising an emulsion-forming enclosure (3) which has (a) at least one inlet orifice (1) for the introduction of immiscible fluids, (c) a zone or bed (4) in communication with the inlet orifice(s) and packed with at least one material selected from steel metal sponge, metal shavings, ceramic chips, cannon packing, animal hair or plastic brush, metal tubes shorter than the internal diameter of the enclosure, and Berl saddle, and (c) at least one outlet orifice (2) in communication with the zone or bed (4) for removal of formed emulsion; said enclosure (4) preferably having a cross-sectional profile, when viewed at right angles to the flow-path therethrough, of a regular or irregular figure having at least three sides. The packed zone (4) causes flow of fluids to be broken down into many fine streams which, being in intimate contact one with the other, remix rapidly and repeatedly, resulting in the formation of the desired emulsion.

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CPC (source: EP)

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Citation (search report)

- US 4018426 A 19770419 - MERTZ RICHARD E, et al
- DE 2532355 A1 19770120 - BAYER AG
- FR 2123373 A1 19720908 - KENICS CORP
- US 3865352 A 19750211 - NELSON CHARLES EDWARD, et al
- GB 684926 A 19521224 - SEPARATOR AB
- FR 2225199 A1 19741108 - LOMBARD JACQUES [FR]
- FR 1572021 A 19690620

Cited by

EP2002882A1; WO2019161852A2; US11027250B2

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