

Title (en)
Arrangement for separating liquid mixtures

Title (de)
Anordnung zur Trennung flüssiger Mischungen

Title (fr)
Agencement pour la séparation de mélanges liquides

Publication
EP 2946837 A1 20151125 (EN)

Application
EP 14168851 A 20140519

Priority
EP 14168851 A 20140519

Abstract (en)
An arrangement (100) for separating liquid mixtures. The arrangement (100) comprises a cylinder (1) having an open first end (1a), a closed second end (1b), an inner surface (2) and an inner diameter (D1). The arrangement (100) further comprises an inner shaft (3) arranged concentrically and stationary within the cylinder (1), the inner shaft (3) comprising a cone (4) expanding conically towards the second end (1b), the cone (4) being hollow, having an open end (9) and comprising perforations (5) through the wall of said cone (4). The perforations (5) allow a first flowing passage (F1) from the cylinder (1) to the open end (9) and out of said cylinder (1). The arrangement (100) still further comprises a screw (6) arranged between the inner surface (2) and the inner shaft (3), the screw axis (X) being concentric with the cylinder (1). The screw (6) constitutes a helix-shaped flow path (P) between the cylinder (1) and the inner shaft (3). The arrangement (100) still further comprises an exit opening (7) in the second end (1b) generating a second flowing passage (F2) from the cylinder (1) to the outside of said cylinder (1).

IPC 8 full level
B04C 3/06 (2006.01)

CPC (source: EP)
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Citation (search report)
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• [XI] US 4179273 A 19791218 - MONTUSI ROBERT R [US]
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