

Title (en)
Multi-stage mixer

Title (de)
Mehrstufiger Modulator

Title (fr)
Mélangeur à plusieurs étages

Publication
EP 2810703 A1 20141210 (EN)

Application
EP 13170315 A 20130603

Priority
EP 13170315 A 20130603

Abstract (en)
A multi-stage mixer (1) comprises a casing (2) defining a chamber (3). A rotor (7) rotates inside the chamber (3) and is provided with circular rows (9a-9g) of cutting elements (10) arranged concentrically in a radially inward position relative to one another. A stator (16) comprises circular rows (18a-18f) of cutting elements (10') arranged concentrically in a radially inward position relative to one another. Each row (9a-9g; 18a-18f) of the rotor and stator comprises a circumferential sequence of cutting elements (10, 10') having a given radial thickness (14, 14') and interspersed with recesses (15, 15') which extend for the entire radial thickness (14, 14') of the cutting elements (10, 10'). The rotor (7) and stator (16) are mutually facing, so that the circular rows (9a-9g) of cutting elements (10) of the rotor (7) are inserted between the circular rows (18a-18f) of cutting elements (10') of the stator (16) inside the chamber (3). Two adjacent recesses (15, 15') disposed in consecutive rows of cutting elements (10, 10') of the rotor (7) or stator (16) extend along a respective median direction (19, 19'), whose extensions are unaligned within a circular crown defined by the two consecutive rows of cutting elements.

IPC 8 full level
B01F 7/00 (2006.01); **B01F 3/08** (2006.01)

CPC (source: EP)
B01F 23/41 (2022.01); **B01F 23/4145** (2022.01); **B01F 27/2711** (2022.01)

Citation (search report)
• [X] GB 755823 A 19560829 - EQUIPMENTS IND ET LUIBERS S A
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Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

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BA ME

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