

Title (en)
Device for vertical mixing

Title (de)
Vorrichtung zum vertikalen Mischen

Title (fr)
Dispositif pour mélanger verticalement

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Application
EP 01115708 A 20010705

Priority
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Abstract (en)
Process for operating a vertical mixer for vaporous, liquid, powdered and pasty products comprises completely filling the mixer in the operating state; forming a shearing field in the mixed product and in the product stream using a mixing tool; and allowing the product to flow from the inlets to the outlet. Process for operating a vertical mixer for vaporous, liquid, powdered and/or pasty products comprises completely filling the mixer (1) in the operating state; forming a shearing field in the mixed product (11) and in the product stream using a mixing tool; and allowing the product to flow from the inlets (10) to the outlet (8). The starting products are continuously introduced into the mixer and the flow of starting products is controlled at the outlet. An Independent claim is also included for a device for carrying out the process comprising paddles (4) arranged on a hollow shaft (2) and an inner shaft (3) arranged within the shaft for a slide (9) provided on the outlet. Preferred Features: The mixing tool operates against the product stream. The mixer is connected to an extruder, dicing press or expander. The mixer is arranged before or after a batch mixer. The mixed product is pressed in the direction of the inner wall of the housing using the mixing tool.

Abstract (de)
Die Erfindung betrifft ein Verfahren zum vertikalen Mischen von gasförmigen, flüssigen, pulverförmigen und/oder pastösen Produkten mit z.B. einer in einem Gehäuse angeordneten Hohlwelle (2) und Innenwelle (3), wobei an der Hohlwelle (2) paddelförmige Mischwerkzeuge (4) und an der Innenwelle (3) eine unterhalb eines Auslasses (8) des Mixers (1) angeordnete Austragsvorrichtung (9) vorgesehen ist. Der Mischer (1) ist dabei im Betriebszustand voll gefüllt und das Produkt (11) und Zugaben werden mittels der Mischwerkzeuge (4) an die Innenwand des Gehäuses gedrückt. Das Produkt fließt aufgrund der Schwerkraft stetig nach unten und wirkt den teils rückwärtsfördernden Paddeln entgegen. Der kontinuierliche Produktfluss wird mit dem am Auslass (8) vorgesehenen Drehschieber (9) geregelt. Der Mischer (1) eignet sich insbesondere als Dosiervorrichtung und/oder zum Befetten von Extruder- und/oder Expanderprodukten. <IMAGE>

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