

Title (en)  
Stirrer

Title (de)  
Rührer

Title (fr)  
Agitateur

Publication  
**EP 1008381 A1 20000614 (DE)**

Application  
**EP 98123248 A 19981207**

Priority  
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Abstract (en)

The segment surfaces has a convex bend (23) with respect to the axial mixed material removal direction (22). The bent segment surfaces lie turned opposite to the stamping levels (26) corresponding to a traverse level via the shaft foot point (8) with a cranking angle (distance 27) in the rotating direction (5). Stirrer used as mixing apparatus for use in a driving machine has (a) a shaft (9) having rotating axis which is inserted into a receptacle of the driving machine on end and has the stirrer body (1) on another end, in whose center the shaft (9) is closed at one shaft foot point; (b) the stirrer body (1) produced from one circular sheet piece with specific nominal radius (R1) and constant thickness with circular shaped segments (6,7) and between approximate radially slits (3,4,21) as stamping portion (2) and the segment surfaces are bent (23) by pressing and are placed diagonally with the front edge (11) in the rotating direction (5) and the back edge (12) against the rotating direction (5); (c) at the stamping portion (2) the slits (3,4,21) running radially between the segments (6,7) in the region of a central shaft foot point (8) begin and run opposite to the radius direction (17,20) against the rotation direction (5) so that the back edged segment surface area (34) runs radially outwards, where one slit (3,4,21) is bordered by a back edge (12) of one segment (6) and by one front edge (11) of one neighbouring segment (7) and changes the slit width in the running of the length of the slit.; (d) the amount of segments (6,7) is between four and eight preferably six and (e) the segment surface.

Abstract (de)

Die Erfindung betrifft einen Rührer als Mischwerkzeug mit einem Schaft (9) und einem Rührkörper (1). Dieser ist aus einem kreisrunden Blechteil konstanter Dicke mit kreisausschnittförmigen Segmenten (6, 7) und dazwischenliegenden, etwa radial mit einer leichten Krümmung entgegen der Drehrichtung (5) verlaufenden Schlitzten (3, 4, 21) als Stanzteil (2) hergestellt. Die Segmentflächen werden durch Prägen bezüglich der axialen Mischgutabströmrichtung (22) mit einer konkaven Krümmung (23) versehen und mit einem Verkröpfungswinkel in Drehrichtung (5) verdreht. Damit wird ein einfacher herstellbarer Rührer zur Verfügung gestellt, mit dem ein effektives Rühr- und Mischergebnis erzielbar ist. In den Anmeldungsunterlagen sind weiter konkrete Bemessungsvorschriften enthalten. <IMAGE>

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**B01F 27/113** (2022.01)

Citation (search report)

- [A] US 2086858 A 19370713 - DUNKELBERGER MILTON S
- [A] US 3147958 A 19640908 - STIFFLER HUGH A
- [A] US 3030083 A 19620417 - STIFFLER HUGH A
- [A] DE 29603261 U1 19960613 - SCHIFFBAUER KLAUS [DE]
- [A] US 2799485 A 19570716 - ISAAC SILVERMAN
- [A] US 2896925 A 19590728 - PLACE DANIEL N
- [A] US 5090816 A 19920225 - SOCHA THOMAS [US]

Cited by

EP2405995A4; WO2009155548A1; EP2300136B1

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