

Title (en)  
Mixing apparatus

Title (de)  
Mischvorrichtung

Title (fr)  
Appareil mélangeur

Publication  
**EP 1287880 A3 20030903 (DE)**

Application  
**EP 02018754 A 20020822**

Priority  
DE 10141302 A 20010828

Abstract (en)  
[origin: EP1287880A2] A mixing arrangement comprises a vertical feed shaft (11) for the base material; a mixing chamber (7) arranged below the shaft for collecting the liquid added; and a rotating mixing tool (8). A propeller (15) rotating about a vertical axis is arranged in the feed shaft. Individual segments of the propeller are blade-free in the periphery direction. Preferred Features: The propeller rotates at a speed of at least 200, preferably 300-3000 min<sup>-1</sup>. The shaft surrounds the propeller. The propeller is mounted on the upper end of the mixing tool. The shaft is cylindrical and conically tapers.

IPC 1-7  
**B01F 7/20**; **B01F 7/16**; **B01F 3/12**; **B01F 15/00**; **B01F 13/10**; **B01F 7/18**

IPC 8 full level  
**B01F 27/906** (2022.01)

CPC (source: EP US)  
**B01F 23/53** (2022.01 - EP US); **B01F 27/90** (2022.01 - EP US); **B01F 33/83** (2022.01 - EP US); **B01F 33/83612** (2022.01 - EP); **B01F 35/4112** (2022.01 - EP US); **B01F 27/1144** (2022.01 - EP US); **B01F 33/83612** (2022.01 - US)

Citation (search report)

- [X] US 2074673 A 19370323 - SACKETT AUGUSTUS J
- [X] US 6024481 A 20000215 - HILLSTROEM ANDERS [SE], et al
- [X] DE 7914349 U1 19801023
- [DA] DE 19629945 A1 19980129 - JANKE & KUNKEL KG [DE]

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DOCDB simple family (publication)  
**EP 1287880 A2 20030305**; **EP 1287880 A3 20030903**; **EP 1287880 B1 20060920**; DE 10141302 A1 20030327; DE 10141302 B4 20040325; DE 50208187 D1 20061102; US 2003043691 A1 20030306

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