

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⁻¹. 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]

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SK TR

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

DOCDB simple family (application)
EP 02018754 A 20020822; DE 10141302 A 20010828; DE 50208187 T 20020822; US 22201202 A 20020815