

Title (en)
AGITATOR

Publication
EP 0234768 B1 19921209 (EN)

Application
EP 87300911 A 19870202

Priority
GB 8603904 A 19860217

Abstract (en)
[origin: EP0234768A2] A turbine agitator assembly comprising a reservoir for liquid, a rotor mounted in the reservoir and with a plurality of radially extending blades (7), and means (14) for sparging a fluid into liquid in the reservoir, the fluid sparging means and the rotor being so constructed and arranged that, in use, the rotor blades (submerged in the liquid) and/or the liquid flow they generate disperse the sparged fluid, characterised in that each of the blades is hollow and has a discontinuous leading edge (10), only a single trailing edge (9) along an acute angle, no external concave surface and an open radially outer end.
[origin: EP0234768A2] Turbine agitator assembly for the dispersion of a fluid in a liquid comprises (a) a reservoir for liquid; (b) a rotor mounted in the reservoir with a number of radially extending blades; and (c) means for sparging a fluid into liquid in the reservoir; in which (d) the fluid sparging means and the rotor being so constructed and arranged that the submerged rotor blades and/or the liquid flow they generate disperse the sparged fluid; such that (e) each of the blades is hollow and has a discontinuous leading edge, only a single trailing edge along an acute angle, no external concave surface and an open radially outer end.

IPC 1-7
B01F 3/04

IPC 8 full level
B01F 3/04 (2006.01); **B01F 7/16** (2006.01); **B01F 7/00** (2006.01)

CPC (source: EP)
B01F 23/233 (2022.01); **B01F 23/2331** (2022.01); **B01F 23/23311** (2022.01); **B01F 23/23314** (2022.01); **B01F 23/23362** (2022.01); **B01F 27/1123** (2022.01); **B01F 27/1125** (2022.01); **B01F 27/115** (2022.01); **B01F 27/192** (2022.01)

Citation (examination)
EP 0224459 A2 19870603 - HJORT SVEN [SE], et al

Cited by
EP0880993A1; CN102974504A; EP0441505A1; AU639745B2; US5246289A; GB2268420A; GB2268420B; NL2009286C2; GB2446924A; KR100826061B1; EA008181B1; US7608236B2; US9897067B2; US11136958B2; WO2008083673A3; WO2005012169A1; WO2014121932A1; WO2014025252A1

Designated contracting state (EPC)
AT BE DE ES FR GB NL

DOCDB simple family (publication)
EP 0234768 A2 19870902; EP 0234768 A3 19890426; EP 0234768 B1 19921209; AT E83169 T1 19921215; AU 580702 B2 19890127; AU 6876487 A 19870820; CA 1257196 A 19890711; DE 3782951 D1 19930121; DE 3782951 T2 19930708; ES 2037078 T3 19930616; GB 8603904 D0 19860326; HK 1001041 A1 19980522; IE 60597 B1 19940727; IE 870279 L 19870817; JP S62193635 A 19870825; NZ 219280 A 19881028; ZA 87882 B 19871028

DOCDB simple family (application)
EP 87300911 A 19870202; AT 87300911 T 19870202; AU 6876487 A 19870213; CA 529394 A 19870210; DE 3782951 T 19870202; ES 87300911 T 19870202; GB 8603904 A 19860217; HK 97102369 A 19971209; IE 27987 A 19870203; JP 3256887 A 19870217; NZ 21928087 A 19870216; ZA 87882 A 19870206