

Title (en)
AGITATORS

Publication
EP 0234768 A3 19890426 (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.

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Citation (search report)

- [X] DE 2207144 A1 19730830 - SCHOELLER BLECKMANN STAHLWERKE
- [A] US 4305673 A 19811215 - HERBST NORMAN R

Cited by

EP0880993A1; CN102974504A; EP0441505A1; AU639745B2; US5246289A; GB2268420A; GB2268420B; NL2009286C2; GB2446924A; KR100826061B1; EA008181B1; US7608236B2; US9897067B2; US11136958B2; WO2008083673A3; WO2005012169A1; WO2014121932A1; WO201402525A1

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GB 8603904 D0 19860326; HK 1001041 A1 19980522; IE 60597 B1 19940727; IE 870279 L 19870817; JP S62193635 A 19870825;
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