

Title (en)  
Impeller

Title (de)  
Rührorgan

Title (fr)  
Agitateur

Publication  
**EP 0847799 B1 20000920 (DE)**

Application  
**EP 97121866 A 19971211**

Priority  
DE 29621683 U 19961213

Abstract (en)  
[origin: US5904423A] A stirring element (10), especially a gasing stirring element for stirring liquids and introducing a gas, preferably air, to the liquids. The stirring element has a hub (12) for attachment to a stirring shaft and a support disk (14) joined to the hub (12), a plurality of stirring blades (16) being attached to a peripheral edge of the support disk (14). To achieve a low output power coefficient, each stirring blade (16) is made of a wedge-shape that is directed in the direction of rotary motion of the stirring element (10). Preferably, radially inner end sections (22, 24) of two sides (18, 20) of the stirring blade (16) are angled relative to sides (18, 20) outwardly with reference to the direction of rotary motion of the stirring element (10). The stirring element (10) simplifies gas feed and prevents clogs. By providing the support disk (14) with a conical shape having a ring of teeth (26) on its outer edge, a uniform distribution and good dispersion of the gas bubbles is obtainable.

IPC 1-7  
**B01F 3/04**

IPC 8 full level  
**B01F 3/04** (2006.01); **B01F 7/00** (2006.01); **B01F 13/10** (2006.01); **B01F 15/00** (2006.01)

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Cited by  
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**US 5904423 A 19990518**; AT E196432 T1 20001015; DE 29621683 U1 19970213; DE 59702379 D1 20001026; DK 0847799 T3 20010129; EP 0847799 A1 19980617; EP 0847799 B1 20000920

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