

Title (en)  
Agitator

Title (de)  
Rührwerk

Title (fr)  
Agitateur

Publication  
**EP 1055450 B1 20050727 (DE)**

Application  
**EP 00111186 A 20000524**

Priority  
DE 29909312 U 19990527

Abstract (en)  
[origin: EP1055450A2] The plant is one used for the removal of sulfur from flue gas. The gas is washed in fluid into which air has been mixed. A m blade whose hollow shaft is used as the conduit for the air promotes the mixing. Air is fed into a fixed manifold (18) from wher enters holes in the mixer shaft (14), the shaft rotating in seals (24). The air then enters a set of radial tubes (30) with open ends through holes (26) at the other end of the shaft, which is closed by a plate (36). The open ends are formed by cuts slanted that the opening faces away from the direction of rotation. The axis distance A between the mixer blade and the distributor is 25-75% of the diameter of the blade and that the radial length of distributor tubes (30) is 35-75% of the radius of the mixer blade.

IPC 1-7  
**B01F 3/04**; **B01F 7/06**

IPC 8 full level  
**B01D 53/34** (2006.01); **B01D 53/50** (2006.01); **B01D 53/77** (2006.01); **B01F 27/71** (2022.01)

CPC (source: EP KR US)  
**B01F 23/2332** (2022.01 - EP US); **B01F 27/71** (2022.01 - KR); **B01F 27/60** (2022.01 - EP US)

Cited by  
DE102010004206A1; CN104046562A; DE102008061258A1; DE102015108260A1; AU2010257782B2; US8894047B2; WO2010142406A1

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