

Title (en)  
Agitator

Title (de)  
Rührwerk

Title (fr)  
Agitateur

Publication  
**EP 1055450 A2 20001129 (DE)**

Application  
**EP 00111186 A 20000524**

Priority  
DE 29909312 U 19990527

Abstract (en)

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.

Abstract (de)

Die Erfindung betrifft ein Rührwerk (10) zum Suspendieren von Feststoffen und zum Dispergieren von Gas in einer Flüssigkeit, insbesondere in einem Absorber einer Rauchgasentschwefelungsanlage. Das Gas wird durch die hohle Rührwelle (14) oder durch eine hohle Nabe (34) des Rührwerkes (10) zugeführt und auf der Druckseite des Rühr-Propellers (16) in die Flüssigkeit eingeblasen. Auf diese Weise können höhere Stoffübergangsraten und höhere Gasdurchsätze als bisher erzielt werden. <IMAGE> <IMAGE>

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; AU2010257782B2; DE102008061258A1; DE102015108260A1; WO2010142406A1; US8894047B2

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