

Title (en)

Apparatus for mixing a gas flowing through a conduit

Title (de)

Vorrichtung zur Durchmischung eines einen Kanal durchströmenden Gases

Title (fr)

Dispositif pour mélanger un gaz passant un conduit

Publication

EP 0956897 A3 20001206 (DE)

Application

EP 99108479 A 19990430

Priority

DE 19820992 A 19980511

Abstract (en)

[origin: EP0956897A2] Gases flowing through a passage are mixed by the action of an arrow-shaped vortex generator (1), the cross-section of which is a flat W or omega . The arrow rests with the tip inclined down towards the oncoming first gas which swirls around the leading edges into a concave mixing zone at the rear, into which a secondary substance, especially a reduction agent, is released. The lower face of the vortex generator has a V-shaped locating recess (4).

IPC 1-7

B01F 5/06; **B01F 5/04**

IPC 8 full level

B01F 23/10 (2022.01)

CPC (source: EP KR US)

B01F 23/10 (2022.01 - KR); **B01F 25/3131** (2022.01 - EP US); **B01F 25/43151** (2022.01 - EP KR US)

Citation (search report)

- [A] DE 4341450 A1 19950608 - BMW ROLLS ROYCE GMBH [DE]
- [A] US 5330267 A 19940719 - TAUSCHER WILLY [CH]
- [A] GB 1000941 A 19650811 - DENIS WILLIAM BRYER, et al
- [A] DE 19542521 A1 19970522 - RUHRGAS AG [DE]
- [A] WO 8900076 A1 19890112 - MOORE BARRETT & REDWOOD [GB]
- [A] EP 0063729 A2 19821103 - BASF AG [DE]
- [A] US 4164375 A 19790814 - ALLEN DAVID J [GB]
- [A] US 5839828 A 19981124 - GLANVILLE ROBERT W [US]
- [A] EP 0638732 A1 19950215 - BALCKE DUERR AG [DE]
- [A] DE 29722388 U1 19980326 - HESTER HILMAR [DE]
- [A] US 5513982 A 19960507 - ALTHAUS ROLF [CH], et al
- [A] US 4812049 A 19890314 - MCCALL FLOYD [US]

Cited by

EP1166861A1; FR2912462A1; US6779786B2; US9345671B2; EP1962995B2

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