

Title (en)  
PROCESS FOR COOLING TECHNICAL GASES

Publication  
**EP 0467441 B1 19931006 (DE)**

Application  
**EP 91201732 A 19910704**

Priority  
DE 4023060 A 19900720

Abstract (en)  
[origin: EP0467441A1] The process gases are passed into a steady-speed fluidised bed designed as an annular trough and fitted with cooling elements. Fluidising gas is passed into the fluidised bed through the inflow tray of the trough. The process gas is introduced through the central orifice of the fluidised bed. Cooled solid flows out of the fluidised bed over the inner rim of the trough into the process gas stream and is carried along by the latter into the dust chamber above the surface of the fluidised bed. The solid deposited in the dust chamber drops back into the annular fluidised bed, and the cooled gas containing the residual solid is passed into a gas cooler fitted with cooling surfaces. The gas emanating from the upper part of the gas cooler is passed into a dust precipitator, and the precipitated solid is recycled into the steady-speed fluidised bed. <IMAGE>

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**B01D 53/08; C10J 3/84; C10K 1/02; C10K 1/04; F28D 13/00**

IPC 8 full level  
**B01J 8/24** (2006.01); **B01D 49/00** (2006.01); **B01D 53/08** (2006.01); **B01J 19/00** (2006.01); **C10J 3/84** (2006.01); **C10K 1/02** (2006.01); **C10K 1/04** (2006.01); **F23B 90/00** (2011.01); **F28D 13/00** (2006.01)

CPC (source: EP US)  
**C10K 1/02** (2013.01 - EP US); **C10K 1/04** (2013.01 - EP US); **F28D 13/00** (2013.01 - EP US)

Cited by  
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**EP 0467441 A1 19920122; EP 0467441 B1 19931006**; AT E95556 T1 19931015; AU 633748 B2 19930204; AU 8112891 A 19920123; CA 2047362 A1 19920121; CA 2047362 C 19990831; DE 4023060 A1 19920123; DE 59100454 D1 19931111; ES 2046844 T3 19940201; FI 913416 A0 19910715; FI 913416 A 19920121; FI 97081 B 19960628; FI 97081 C 19961010; JP H06341777 A 19941213; NO 301131 B1 19970915; NO 912596 D0 19910702; NO 912596 L 19920121; PT 98379 A 19930930; PT 98379 B 19990129; TR 25189 A 19930101; US 5205350 A 19930427; ZA 915692 B 19930331

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