

Title (en)  
BURNER

Title (de)  
BRENNER

Title (fr)  
BRÛLEUR

Publication  
**EP 3469261 A1 20190417 (EN)**

Application  
**EP 17730542 A 20170607**

Priority  
• GB 201610008 A 20160608  
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Abstract (en)  
[origin: GB2551167A] A conduit for a burner defines a flow channel with a deviating direction through an elbow pipe 1 followed by a linear direction through an end pipe 3, to an outlet 7. A particle concentrator 11 comprises an elongate annular ring with an outside diameter smaller than the inner diameter of the conduit is located axially in the conduit and between the elbow 1 and end pipe 3. The particle concentrator 11 divides the conduit flow channel into concentric inner and outer flow channels. The concentrator 11 may have radially projecting formations and may control pulverulent fuel profiles at the elbow 1 or generate rotational flow. A core conduit 5 may be located coaxially in the conduit to convey a further gas flow with a tapered, bullet-shaped diffuser (23, Fig. 5) mounted along the axis of the burner. The conduit may have an annular deflector 13 downstream of the concentrator 11 and may have a further annular diffuser 15. A burner comprising the conduit is also claimed, with the burner particularly suitable for the combustion of pulverised coal.

IPC 8 full level  
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