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(54) **Air injection systems for combustion chambers**

(57) A combustion system (10) comprises a combustion chamber (12) and a flue gas duct (14) located downstream of the combustion chamber to receive combustion products from the combustion chamber, the combustion chamber has a base and (16) an enclosing wall (18) connecting the base to the flue gas duct. The combustion chamber is provided with a plurality of combustion devices (20), the combustion devices being configured to deliver fuel and gas and/or air into the combustion chamber so as to generate a fireball within a combustion zone (22) in the combustion chamber, the combustion devices further being configured such that the generated fireball rotates about an axis extending between the base and the flue duct. A secondary gas and/or air nozzle is provided in the base of the combustion chamber, at a location upstream of the combustion zone, the nozzle being for delivering gas and/or air into the combustion zone in a direction towards the flue duct.

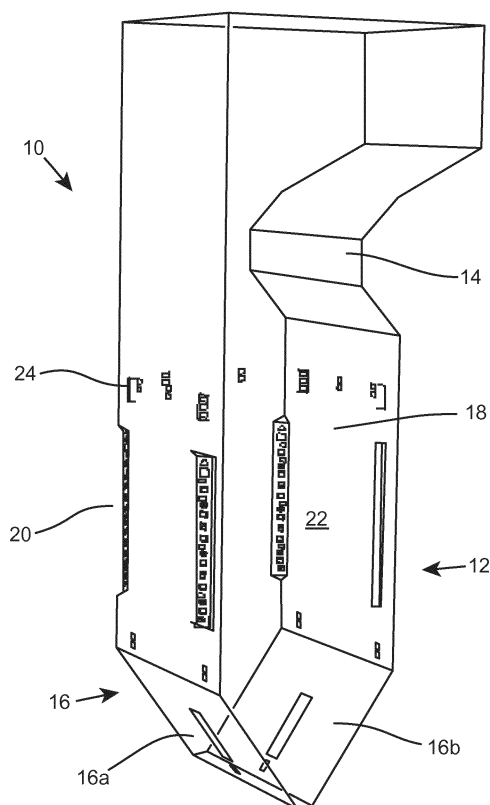


Fig. 1



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The present search report has been drawn up for all claims			
Place of search		Date of completion of the search	Examiner
The Hague		12 February 2015	Mougey, Maurice
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

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