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(54) **Combustion system**

(57) A combustion system includes: a furnace housing (11) defining a combustion chamber (111) therein and having a gas outlet (112) in fluid communication with the combustion chamber (111); a plenum housing (61) surrounding and cooperating with the furnace housing (11) to define a plenum chamber (601) therebetween, and having an air inlet (611) and an air outlet (603) which

are in fluid communication with the plenum chamber (601); and a heat exchanger housing (51) disposed outwardly of the plenum housing (61) and having an air inlet (501) in fluid communication with the air outlet (603) of the plenum housing (61), an air outlet (502), a gas inlet (503) in fluid communication with the gas outlet (112) of the furnace housing (11), and a gas outlet (504).

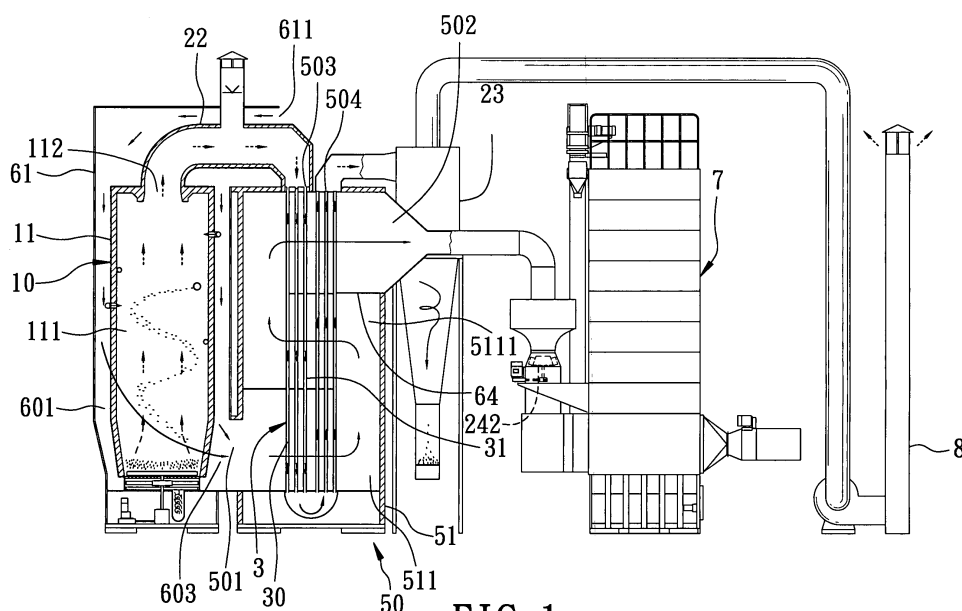


FIG. 1



EUROPEAN SEARCH REPORT

Application Number
EP 08 01 0142

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
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The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (IPC)
			F24H
Place of search		Date of completion of the search	Examiner
Munich		5 June 2012	Blot, Pierre-Edouard
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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**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
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