



(11)

EP 2 573 497 A3

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3:
25.06.2014 Bulletin 2014/26

(51) Int Cl.:
F28D 21/00 ^(2006.01) **F24B 7/00** ^(2006.01)
F24B 9/00 ^(2006.01)

(43) Date of publication A2:
27.03.2013 Bulletin 2013/13

(21) Application number: **12185413.7**

(22) Date of filing: **21.09.2012**

(84) Designated Contracting States:
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR
Designated Extension States:
BA ME

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(30) Priority: **23.09.2011 FI 20110325**

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(54) **Thermal energy recovery unit, and arrangement for utilizing thermal energy of flue gases**

(57) The invention relates to a thermal energy recovery unit in connection with a furnace of a building, comprising a flue duct (110) for conveying flue gas released from the furnace. The recovery unit comprises a liquid container (120) arranged around the flue duct (110) for collecting thermal energy in the flue gas conveyed in the flue duct into the liquid in the liquid container (120), and at least one liquid connection (101, 102) for connecting the liquid container (120) of the recovery unit to another recovery unit so as to enable transfer of the liquid in the liquid container between the recovery units.

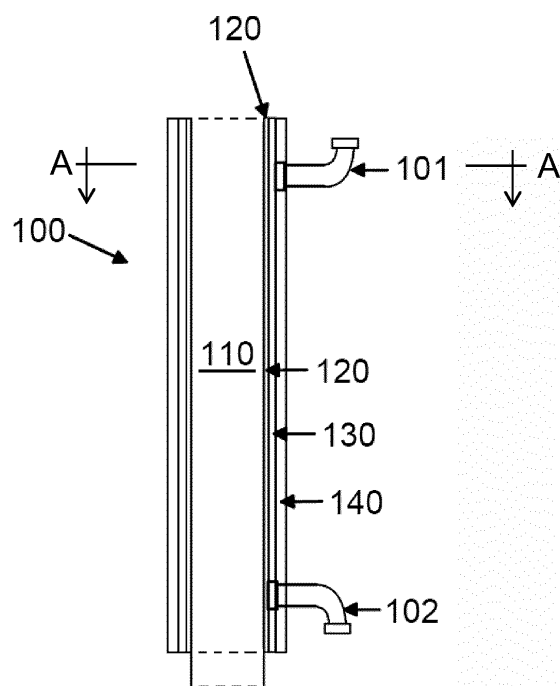


Fig.1

EP 2 573 497 A3



EUROPEAN SEARCH REPORT

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The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 7 May 2014	Examiner Berkus, Frank
CATEGORY OF CITED DOCUMENTS		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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EPO FORM 1503 03.82 (P04C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT
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5

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