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(54) **Shaft furnace**

(57) The invention refers to a vertical shaft furnace (100) for a burden (115) moving under the influence of gravity from the top to the bottom of the shaft furnace, in particular for the production of directly reduced iron, with at least one gas bustle line (131, 132), which is connected with at least one gas bustle port (133, 134) in a reduction zone (101), which is characterized in that an injection system (400, 410) for a burnable gas mixture is provided in the gas bustle line (131, 132).

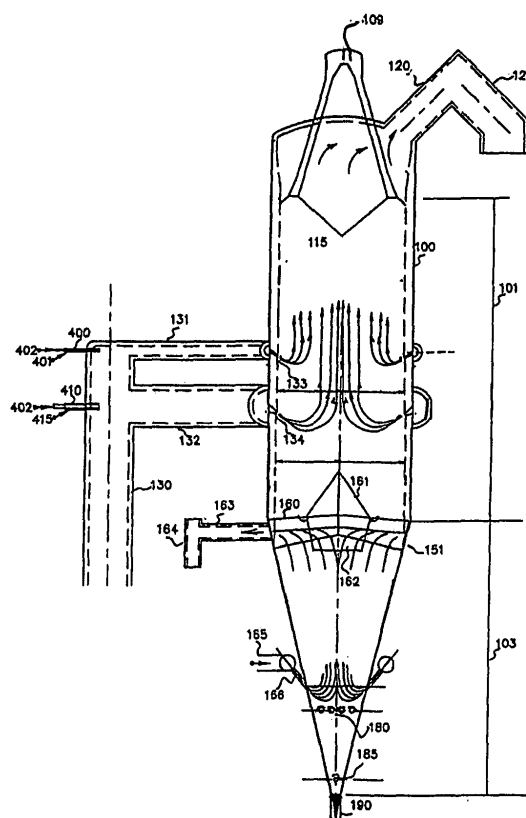


Fig. 1



EUROPEAN SEARCH REPORT

Application Number
EP 07 02 3876

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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
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Y	* claims 1-3 * * figure 1 * * page 6, line 16 - page 7, line 32 *	6,7	
X	WO 94/20642 A (AIR LIQUIDE [FR]; KARINTHI PIERRE [FR]; BUFFENOIR MARC [FR]; STREICHER) 15 September 1994 (1994-09-15)	1-5	
Y	* figures 1,2 * * abstract * * page 1, line 27 - line 32 * * page 4, line 5 - line 13 *	6,7	
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Y	* abstract * * figures 1,2 * * page 1 * * column 1, line 40 - line 61 * * column 2, line 17 - line 31 * * column 2, line 57 - column 3, line 6 *	6,7	TECHNICAL FIELDS SEARCHED (IPC)
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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 18 November 2008	Examiner Gimeno-Fabra, Lluís
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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EPO FORM 1503 03/82 (P04C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT
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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
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