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(54) **Pouring device of molten-metal-containing vessel.**

(57) Molten metal contained in a vessel (1) such as a Bessemer type converter is tapped or poured out or stoppered by a pouring device comprising a tubular refractory structure forming a fixed lining (2) of a hole through the bottom of the vessel and having therethrough a pouring orifice (12) having an upper opening (12a) open to the vessel interior and a lower opening (12b) openable to the outside, a cooling device (13) for cooling the upper opening (12a) and the neighboring region with a cooling medium, and a stopper mechanism (17) mounted on the outer side of the vessel (1) for opening and closing the lower opening (12b) of the pouring orifice (12) thereby to pour out molten metal and to stopper the same.

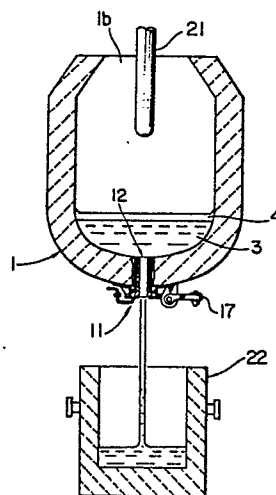


FIG. 1

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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.4)
A	EP-A-0 223 991 (NEUE HAMBURGER STAHLWERKE GMBH) * claim 1 * ---	1-4	B 22 D 35/00 B 22 D 39/00 B 22 D 41/00 C 21 C 5/46
A	US-A-2 517 931 (I. ROSSI) * claim 1 * ---	1	
D,A	PATENT ABSTRACTS OF JAPAN vol. 10, no. 103 (C-340)(2160), 18 April 1986; & JP - A - 60 234 915 (KAWASAKI) 21.11.1985 -----	1	
			TECHNICAL FIELDS SEARCHED (Int. Cl.4)
			B 22 D 35/00 B 22 D 39/00 B 22 D 41/00 C 21 C 5/00
The present search report has been drawn up for all claims			
Place of search BERLIN		Date of completion of the search 04-01-1990	Examiner GOLDSCHMIDT G
<b>CATEGORY OF CITED DOCUMENTS</b> 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			