

12

EUROPEAN PATENT APPLICATION

21 Application number: **85306696.7**

51 Int. Cl.: **B 22 D 11/10**

22 Date of filing: **20.09.85**

30 Priority: **18.03.85 US 713412**

71 Applicant: **CO-STEEL INTERNATIONAL LIMITED,**
1601 Hopkins Street, Whitby Ontario, L1N 2C3 (CA)

43 Date of publication of application: **24.09.86**
Bulletin 86/39

72 Inventor: **Beaton, John W., 840 Greenview Dr., Grand**
Prairie Texas 75050 (US)

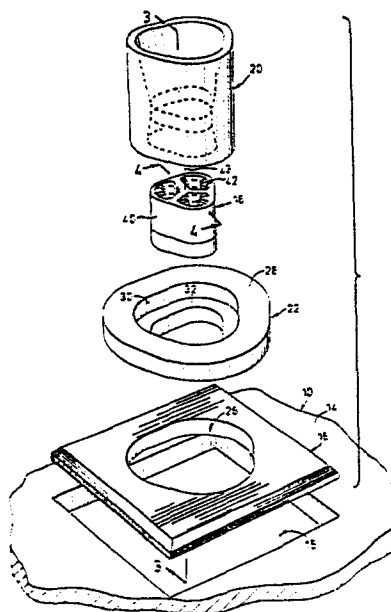
84 Designated Contracting States: **DE FR GB IT SE**

88 Date of deferred publication of search
report: **16.06.87 Bulletin 87/25**

74 Representative: **SERJEANTS, 25, The Crescent King**
Street, Leicester, LE1 6RX (GB)

54 Tundish outlet means.

57 A tundish (10) comprises a well block (20) and a nozzle (18) receivable therein. The nozzle (18) has a number of flowthrough passages (42) converging towards the top of a casting mould (not shown). The passages (42) are provided at an inlet portion with inwardly extending fins (48). The well block (20) comprises an inwardly funneled upper portion (34) and an outwardly flared lower portion (38) for receiving the nozzle (18). The well block (20) is supported in a ring (22) comprising an outer rim (28) and an inner ledge (32). The ring (22) contacts a mounting plate (16) welded in an aperture (15) in a bottom (14) of the tundish (10).





European Patent
Office

EUROPEAN SEARCH REPORT

0195158

Application number

EP 85 30 6696

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	CH-A- 620 383 (CONCAST AG) * claim 2 *	1	B 22 D 11/10
A	DE-A-2 747 746 (DRESSER INDUSTRIES) * claim 1 *	1	
D,A	US-A-4 165 026 (I.J. HAZLEHURST) * claim 1 *	1	
D,A	US-A-2 706 365 (C.J. STALEGO) * figures 1, 2 *	1	
The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (Int. Cl.4)
			B 22 D 11/00
Place of search		Date of completion of the search	Examiner
BERLIN		26-02-1987	GOLDSCHMIDT G
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone		T : theory or principle underlying the invention	
Y : particularly relevant if combined with another document of the same category		E : earlier patent document, but published on, or after the filing date	
A : technological background		D : document cited in the application	
O : non-written disclosure		L : document cited for other reasons	
P : intermediate document		& : member of the same patent family, corresponding document	