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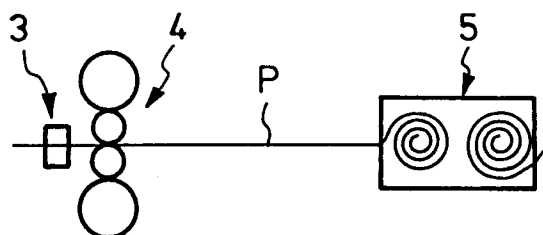
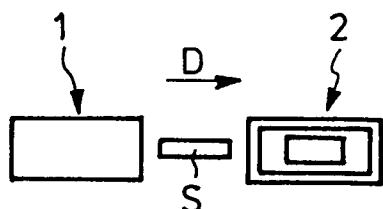
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11.03.92 Bulletin 92/11(71) Applicant: **ISHIKAWAJIMA-HARIMA JUKOGYO
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KILBURN & STRODE 30 John Street
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(57) A hot roughing mill installation comprises one or two reversing roughing mills (4) through which a slab(s) of hot metal, in use, passes in a working direction (D). Upstream of the roughing mill(s) is a sizing press (2) which, in use, changes the width of the slab(s) after it has come out of a furnace (1) upstream of the sizing press (2). Downstream of the

roughing mill(s) is a coil box (5) arranged to coil the roughed strip (P). Edgers (3), which form a thickened portion on each side of the slab(s), may be located immediately upstream and/or downstream of the or each roughing mill (4), and a rolling mill (6) may additionally be located between the sizing press (2) and the roughing mill(s).

Fig. 1



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EUROPEAN SEARCH REPORT

Application Number

EP 91 30 1592

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.5)
X	US-A-3 803 891 (SMITH) * claim 1; column 4, lines 39-41; figure 4, positions 28,29 * - - -	1	B 21 B 1/32
X	EP-A-0 327 855 (SCHLOEMANN) * claim 1; figure 2 * - - -	1,8	
Y	EP-A-0 368 333 (HITACHI) * figure 2; claims 1,5 * - - -	1,2	
Y	EP-A-0 294 807 (HITACHI) * figures 1-3; claims 1,3 * - - -	1,2	
A	US-A-4 675 974 (CONNOLLY) * claim 1; figure 1 * - - -	1	
A	US-A-3 358 358 (JENKS) * figures 1-3 * - - - - -	1	
The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			B 21 B
Place of search		Date of completion of search	Examiner
Berlin		28 November 91	SCHLAITZ J
CATEGORY OF CITED DOCUMENTS			
X: particularly relevant if taken alone		E: earlier patent document, but published on, or after the filing date	
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P: intermediate document		&: member of the same patent family, corresponding document	
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