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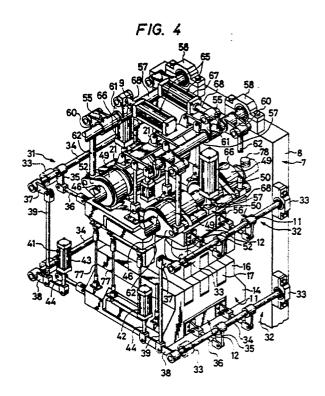
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## Apparatus and method for guiding continuously cast sections.

 A continuously cast strand guiding apparatus (4) comprises plural sets of walking bars (16, 17) that are paired opposite to each other on both sides of a cast strand, movable along and across the travel line of the cast strand and driven forward by the cast strand intergrally therewith while the cast strand is being gripped thereby, a reciprocating device (41, 42) that causes each set of the paired gripping means to integrally make an approach run from the standby position to the starting point where the cast strand is gripped for guiding and alternately move back and forth along the travel line so that one set moves forward from said starting point to the terminal point while the other set moves backward from the terminal point to the starting point, and a compressing device that applies a gripping force to the walking-bars so that the cast strand is gripped at the starting point and released at the terminal point, each set of walking-bars is independently pressed toward the cast strand at an equal point relative to the travel direction of the cast strand, and each set of walking-bars grip the cast strand for an overlapped period of time.





## **EUROPEAN SEARCH REPORT**

EP 86 11 4212

	DOCUMENTS CONS	SIDERED TO BE RE	ELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages		Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.4)		
A	DE-A-2 618 746 MONTAN) * claim 3 *	(VOEST-ALPINI	<b>E</b>	1		D 11/12 D 11/14 D 11/128
A	DE-A-3 407 391 INTERNATIONAL) * claim 1 *	(CONCAST		1		
D,A	PATENT ABSTRACTS 6, no. 14 (M-108 1982, page 103 I 56 134 055 (KOBI 20-10-1981	3), 19th Janua M 108: & JP -	ary	1		
D,A P	PATENT ABSTRACTS OF JAPAN, vol. 10, no. 204 (M-499)[2260], 17th July 1986; & JP - A - 61 46360 (NIPPON STEEL CORP.) 06-03-1986		7th   50	1		ICAL FIELDS HED (Int. Cl.4)
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