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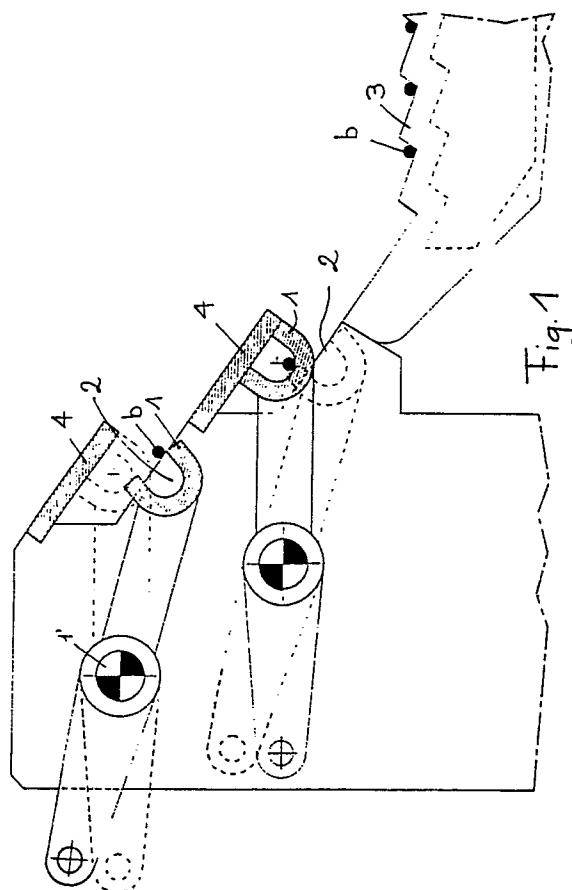
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In-line bar collecting movable channels with transverse discharging means on a transverse transfer bed, particularly in hot rolling plants.

In-line bar collecting movable channels with transverse discharging means on a transverse transfer bed particularly in hot rolling plants, characterized by the fact that it includes:

- at least two movable receiving bar (b) "U" shaped channels (1) mounted on oscillating arms (1') substantially in overlap, with journals on the opposite side to the transverse transfer bed (3);
- said channels when lowered are transversely crossed by at least two tilted planes (2) that make the bars overflow from said channels (1), sliding down toward the adjacent underlying transverse transfer bed (3);
- corresponding fixed upper covers (4) under which the "U" shaped channels (1) move up and down to close and open.



An on line bar collecting movable channels with transverse discharging means on transverse transfer plaque bed particularly in hot rolling plants.

The present invention has for object an on line bar collecting movable channels with transverse discharging means on transverse transfer plaque bed particularly in hot rolling plants.

The innovation finds particular even if not exclusive application downwards the hot rolling mills to receive and to stop the longitudinally advancing bars after cutting in length and deviation by means of shunter on parallel ways (channels) in order to allow discharging on the respective cooling transverse transfer plaque bed.

In Prior Art, different on line bar collecting movable channels with transverse discharging means on transverse transfer plaque bed particularly in hot rolling plants, are well known. These devices are complicated and expensive, present a high wear grade and have speed limits for notable masses in movement, such plants involving in particular consistent masses displacement. In many cases the entire structures of the channels is moved e.g. rotary channels or oscillating channels, while in other cases the bar extraction means from fixed channel are complex and easily tangled.

Purpose of the present invention is to obviate the mentioned drawbacks.

This and other purposes are reached with the present invention as claimed solving the exposed problems by means of an on line bar collecting movable channels with transverse discharging means on transverse transfer bed particularly in hot rolling plants, characterized by the fact that it includes:

- at least two movable receiving bar "U" shaped channels mounted on oscillating arms substantially in overlap, with journalling in opposite side referred to a transverse transfer bed plaque;
- said channels when lowered are transversely crossed by at least two tilted planes that make to overflow the bars from said channels falling in sliding down toward the adjacent underlying transverse transfer plaque bed;
- corresponding fixed closure upper covers under which move in moving down and beaten approaching channels.

In such way :

- the masses in movement are reduced;
- the extraction mechanism results substantially simplified and more reliable.

These and other advantages will appear from the successive specification exposing a specified preferential solutions of realization with the help of the accompanying drawings which particulars of execution are not to be considered limitative but exemplificative only.

Figure 1 represents a diagrammatic view in transverse section of a device as per the present invention.

Making reference of the Figure is shown that the on line bar collecting movable channels with transverse discharging means on transverse transfer bed particularly in hot rolling plants, characterized by the fact that it includes:

- at least two movable receiving bar (b) "U" shaped channels (1) mounted on oscillating arms (1') substantially in overlap, with journalling in opposite side referred to a transverse transfer bed plaque (3);
- said channels when lowered are transversely crossed by at least two tilted planes (2) that make to overflow the bars from said channels falling in sliding down toward the adjacent underlying transverse transfer plaque bed (3);
- corresponding fixed closure upper covers (4) under which move in moving down and beaten approaching channels (1).

Naturally the number of the channels can be more than two.

Claims

1. A on line bar collecting movable channels with transverse discharging means on transverse transfer bed particularly in hot rolling plants, characterized by the fact that it includes:

- at least two movable receiving bar (b) "U" shaped channels (1) mounted on oscillating arms (1') substantially in overlap, with journalling in opposite side referred to a transverse transfer bed plaque (3);
- said channels when lowered are transversely crossed by at least two tilted planes (2) that make to overflow the bars from said channels falling in sliding down toward the adjacent underlying transverse transfer plaque bed (3);
- corresponding fixed closure upper covers (4) under which move in moving down and beaten approaching channels (1).

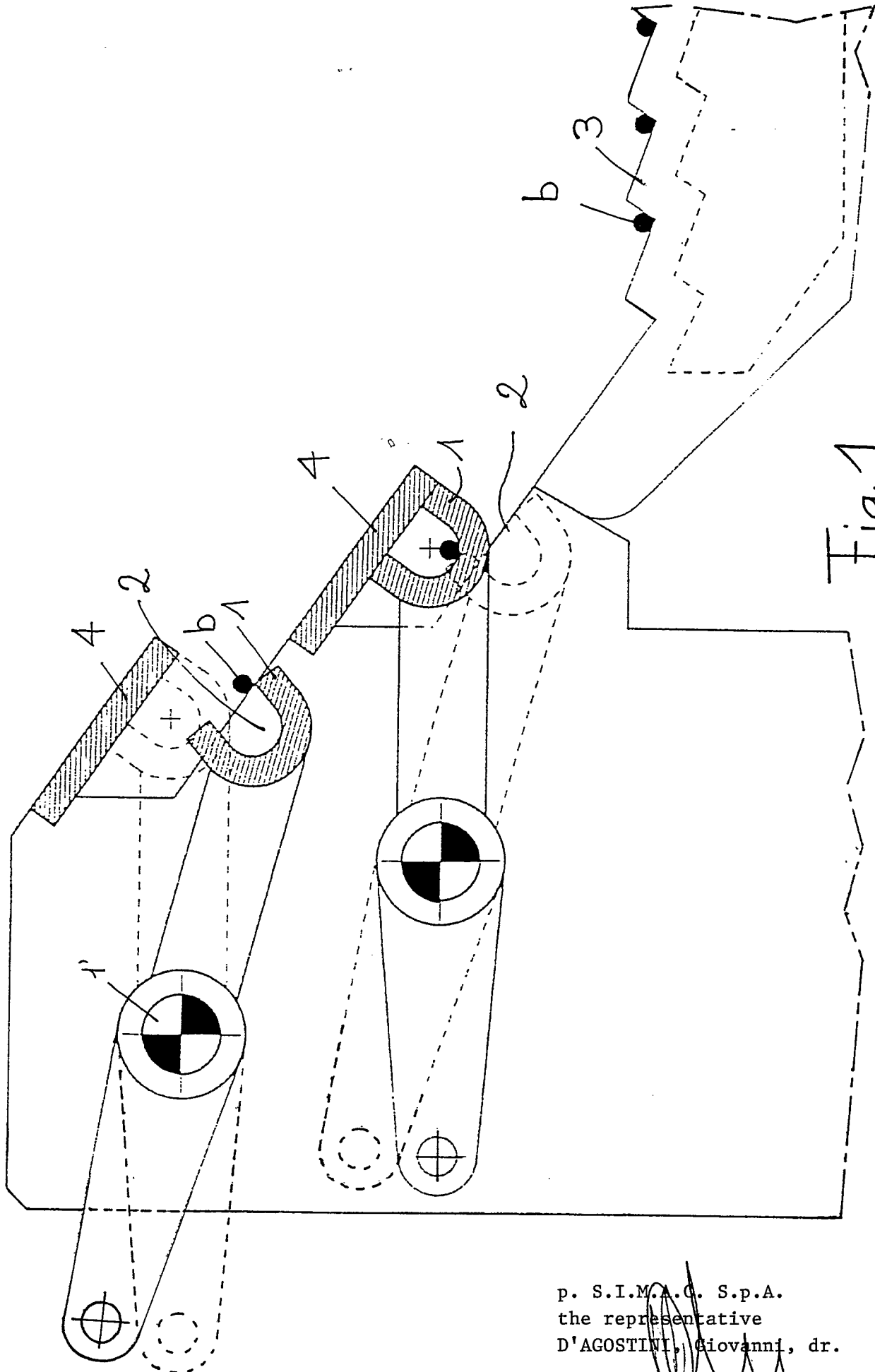


Fig. 1

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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.5)
P,X	EP-A-0 331 340 (KYOEI STEEL) * Columns 3-5; figures * ---	1	B 21 B 43/00
A	DE-C- 923 963 (MORGÄRDSHAMMARS MEK. VERKSTADS) * Whole document * ---	1	
A	BE-A- 415 362 (BOURG) ---		
A	EP-A-0 189 616 (DANIELI) ---		
A	FR-A-2 187 433 (CREUSOT-LOIRE ENTERPRISES) ---		
A	DE-C- 483 199 (DEMAG) ---		
A	DE-C- 465 625 (NÖLL) -----		
			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			B 21 B
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 06-09-1990	Examiner ROSENBAUM H. F. J.
<p>CATEGORY OF CITED DOCUMENTS</p> <p>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</p> <p>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</p>			