

Title (en)
DEVICE FOR CONTINUOUS CASTING OF THIN METAL STRIPS BETWEEN TWO ROLLS

Publication
EP 0430841 B1 19930908 (FR)

Application
EP 90470062 A 19901114

Priority
FR 8915340 A 19891122

Abstract (en)
[origin: EP0430841A1] Device for continuous casting of thin metal strips (6) between two parallel rotating rolls (2), comprising lateral faces at the ends of the rolls defining, with the rolls, the casting space for the molten metal (1), characterised in that it comprises a flat cover (7), arranged above the molten metal (1) and in the immediate vicinity of its meniscus in order to form a thermal screen which is of a size so as to cover over the entire surface of the molten metal, this cover (7) being provided with a refractory coating (8) on its face which is turned towards the molten metal and bearing on the two rolls (2). This cover forms a thermal shield or screen preventing any incipient surface solidification of the bath of molten metal (1). Advantageously, an inert gas may be injected between the meniscus (4) and the cover (7) through the latter. <IMAGE>

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B22D 11/06

IPC 8 full level
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CPC (source: EP US)
B22D 11/064 (2013.01 - EP US); **B22D 11/0697** (2013.01 - EP US)

Citation (examination)
• PATENT ABSTRACTS OF JAPAN vol. 12, no. 445 (M-767)(3292), 22 novembre 1988; && JP - A - 63177945 (HITACHI LTD.) 22.07.1988
• PATENT ABSTRACTS OF JAPAN vol. 9, no. 142 (M-388)(1865), 18 juin 1985; & JP - A - 6021161 (MITSUBISHI) 02.02.1985
• PATENT ABSTRACTS OF JAPAN vol. 11, no. 348 (M-642)(2795), 14 novembre 1987; && JP - A - 62130749 (KAWASAKI STEEL) 13.06.1987

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AU667158B2; FR2693135A1; FR2688432A1; US6415849B1; US6443220B1; WO9835773A1; WO9835772A1

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