

Title (en)

A BOW-TYPE CONTINUOUS-CASTING METHOD AND APPARATUS

Publication

EP 0068814 B1 19850130 (EN)

Application

EP 82303283 A 19820623

Priority

JP 9896481 A 19810625

Abstract (en)

[origin: EP0068814A1] The apparatus has a low height, a curved mold (6), and a multi-point straightening zone (10). The prior art involves a problem in that the straightening rolls (7) are not reliable due to a high load which is generated during a non-stationary casting period during which the top or bottom section of a strand (3) is conveyed through a multi-point straightening zone (10). One selected pair of straightening rolls (11) is shunted from the defined radius (Rn) of the curve by means of cone-shaped springs (28) or hydraulic cylinders so that the distance between the two pairs of straightening rolls (11) which are engaged in straightening during a non-stationary casting period is increased. The reliability of the straightening rolls (11) is so enhanced that high-speed and moderate-cooling casting in a low-head CCM can be directly combined with hot-rolling of the strands (3).

IPC 1-7

B22D 11/128; **B22D 11/12**; **B22D 11/16**

IPC 8 full level

B22D 11/12 (2006.01); **B22D 11/128** (2006.01); **B22D 11/16** (2006.01)

CPC (source: EP)

B22D 11/1282 (2013.01)

Cited by

CN112938539A; CN113070370A; US6155332A; DE102013224557A1; EP2893993A1

Designated contracting state (EPC)

AT BE CH DE FR GB IT LI NL

DOCDB simple family (publication)

EP 0068814 A1 19830105; **EP 0068814 B1 19850130**; AT E11495 T1 19850215; AU 531512 B2 19830825; AU 8493982 A 19830519; BR 8203701 A 19830621; CA 1189281 A 19850625; DE 3262130 D1 19850314; ES 513478 A0 19830616; ES 8306969 A1 19830616; JP S58363 A 19830105

DOCDB simple family (application)

EP 82303283 A 19820623; AT 82303283 T 19820623; AU 8493982 A 19820617; BR 8203701 A 19820624; CA 406037 A 19820625; DE 3262130 T 19820623; ES 513478 A 19820625; JP 9896481 A 19810625