

Title (en)
Coninuous casting machine for ingots suitable for rolling.

Title (de)
Walzbarren-Stranggussanlage.

Title (fr)
Installation de coulée continue de lingots pour laminage.

Publication
EP 0615802 A3 19971112 (DE)

Application
EP 94101178 A 19940127

Priority
DE 4306943 A 19930305

Abstract (en)
[origin: EP0615802A2] A conventional start-up head for a vertical continuous casting plant consists of a start-up brick (3) which closes a continuous casting mould at the bottom during start-up and receives from the shaping top section (1) a metal melt directed vertically onto the said start-up brick. In order to increase start-up reliability and the stability of the ingot and to significantly reduce the formation of a curve and the occurrence of bottom discard, it is proposed that the start-up brick (3) should consist of a block which corresponds approximately to the format of the continuous casting mould and into which is machined an essentially trough-shaped depression (5), the depression being delimited by an encircling rim (4), and that at least one raised portion (6) should be arranged in the depression (5) symmetrically to the centre lines (7, 8) of the start-up brick, the side walls of the encircling rim (4) and of the raised portion (6) being bevelled towards the depression (5).

IPC 1-7
B22D 11/08

IPC 8 full level
B22D 11/00 (2006.01); **B22D 11/04** (2006.01); **B22D 11/041** (2006.01); **B22D 11/049** (2006.01); **B22D 11/08** (2006.01)

CPC (source: EP US)
B22D 11/083 (2013.01 - EP US)

Citation (search report)

- [XY] GB 2029295 A 19800319 - ALUSUISSE
- [Y] GB 2034216 A 19800604 - OLIN CORP
- [Y] GB 2132523 A 19840711 - KAISER ALUMINIUM CHEM CORP
- [YP] US 5217060 A 19930608 - LAZZARO GIUSEPPE [IT]
- [Y] FR 2081897 A1 19711210 - BRITISH ALUMINIUM CO LTD, et al
- [Y] DE 810062 C 19510806 - VER LEICHTMETALLWERKE GMBH
- [Y] PATENT ABSTRACTS OF JAPAN vol. 011, no. 021 (M - 555) 21 January 1987 (1987-01-21)

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