

Title (en)

Method and apparatus for casting metal wires, bars and tubes in an upwardly direction

Title (de)

Verfahren und Vorrichtung zum Giessen von metallischen Drähte, Röhren und Metallsträngen von unten nach oben

Title (fr)

Procédé et dispositif pour la coulée de fils, tubes et barres métalliques dans une direction ascendante

Publication

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Application

EP 98107552 A 19980424

Priority

FI 971818 A 19970429

Abstract (en)

The invention relates to a method and apparatus for casting particularly non-ferrous wires, bars and tubes continuously upwards, but the casting is not carried out vertically but in an inclined position. After the primary cooler, the cooling of the cast product takes place as direct water cooling.
<IMAGE>

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IPC 8 full level

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Citation (search report)

- [X] FR 2367560 A1 19780512 - MICHELIN & CIE [FR]
- [A] EP 0481380 A1 19920422 - OUTOKUMPU CASTFORM OY [FI]
- [A] FR 1489021 A 19670721 - SOC METALLURGIQUE IMPHY
- [A] EP 0165456 A2 19851227 - ROSSI IRVING
- [XY] PATENT ABSTRACTS OF JAPAN vol. 008, no. 028 (M - 274) 7 February 1984 (1984-02-07)
- [XY] PATENT ABSTRACTS OF JAPAN vol. 009, no. 098 (M - 375) 27 April 1985 (1985-04-27)

Cited by

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DE 69807280 T2 20021205; FI 112447 B 20031215; FI 971818 A0 19970429; FI 971818 A 19981030; JP H10328787 A 19981215;
KR 19980081807 A 19981125; RU 2203769 C2 20030510; TW 403680 B 20000901

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KR 19980015179 A 19980428; RU 98107843 A 19980428; TW 87106832 A 19980504