

Title (en)
PROCESS FOR CONTROLLING THE POWER OF A CHANNEL INDUCTOR

Publication
EP 0121111 B1 19870624 (DE)

Application
EP 84102212 A 19840302

Priority
SE 8301225 A 19830307

Abstract (en)
[origin: US4594723A] A method for continuously pouring molten metal in an initially substantially unfilled tundish having a channel-type inductor having a channel opening into the bottom portion of the tundish, is done by starting the pourings and the continuous sequential steps of applying power to the inductor when its channel is first covered by the poured metal to form a melt level and the static pressure of the metal is low and while increasing the power rapidly so as to cause incipient pinching in the channel and then momentarily rapidly reducing the power so as to prevent pinching; as the metal level further increases so that the metal's static pressure further increases, again increasing the power rapidly so as to again cause incipient pinching in the channel and then again momentarily rapidly reducing the power so as to prevent pinching; and continuing these sequential steps until the tundish is filled.

IPC 1-7
H05B 6/34; G01R 19/165; H05B 6/06

IPC 8 full level
B22D 11/10 (2006.01); **B22D 41/015** (2006.01); **H05B 6/06** (2006.01); **H05B 6/10** (2006.01); **H05B 6/20** (2006.01); **H05B 6/34** (2006.01)

CPC (source: EP US)
H05B 6/067 (2013.01 - EP US); **H05B 6/20** (2013.01 - EP US); **H05B 6/34** (2013.01 - EP US)

Designated contracting state (EPC)
DE FR GB

DOCDB simple family (publication)
EP 0121111 A1 19841010; **EP 0121111 B1 19870624**; DE 3464453 D1 19870730; JP H0619965 U 19940315; JP H077015 Y2 19950222; JP S59167989 A 19840921; SE 435988 B 19841029; SE 8301225 D0 19830307; SE 8301225 L 19840908; US 4594723 A 19860610

DOCDB simple family (application)
EP 84102212 A 19840302; DE 3464453 T 19840302; JP 1510592 U 19920323; JP 3846984 A 19840229; SE 8301225 A 19830307; US 58626184 A 19840305