

Title (en)

Process and device for controlling the driving forces in continuous casting machines

Title (de)

Verfahren und Vorrichtung zur Kontrolle der Antriebskräfte bei Stranggiessanlagen

Title (fr)

Procédé et dispositif de commande des forces motrices dans les installations de coulée continue

Publication

EP 1249288 A3 20021218 (DE)

Application

EP 02006261 A 20020320

Priority

DE 10118097 A 20010411

Abstract (en)

[origin: EP1249288A2] Process for controlling the drive forces of strand guide segments comprises using a highest permissible drive force to convey the strand; measuring the individual forces of a number of segments; calculating the sum of the individual forces; and comparing with the highest permissible drive force and switching off the device if this force is exceeded. An Independent claim is also included for a device for controlling the drive forces of strand guide segments. Preferred Features: Force measurements are initially carried out in the casting device without the strand, further measurements are carried out during the casting process and the difference between the force measurements give the pulling forces.

IPC 1-7

B22D 11/20

IPC 8 full level

B22D 11/20 (2006.01)

CPC (source: EP)

B22D 11/20 (2013.01)

Citation (search report)

- [E] EP 1193007 A1 20020403 - SMS DEMAG AG [DE]
- [YD] DE 2923900 A1 19810205 - HOESCH ESTEL WERKE AG
- [PA] EP 1125657 A2 20010822 - SMS DEMAG AG [DE]
- [Y] PATENT ABSTRACTS OF JAPAN vol. 016, no. 057 (M - 1210) 13 February 1992 (1992-02-13)
- [A] DATABASE WPI Section Ch Week 197729, Derwent World Patents Index; Class M22, AN 1977-51563Y, XP002216576

Cited by

WO2009089895A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

EP 1249288 A2 20021016; EP 1249288 A3 20021218; EP 1249288 B1 20041006; AT E278491 T1 20041015; DE 10118097 A1 20021017; DE 50201188 D1 20041111

DOCDB simple family (application)

EP 02006261 A 20020320; AT 02006261 T 20020320; DE 10118097 A 20010411; DE 50201188 T 20020320