Title (en)

Process for casting between cylinders

Title (de)

Verfahren zum Giessen zwischen Zylindern

Title (fr)

Procédé de coulée continue entre cylindres

Publication

EP 0841112 B1 20000524 (FR)

Application

EP 97402589 A 19971031

Priority

FR 9613777 A 19961107

Abstract (en)

[origin: EP0841112A1] A detection method of continuous casting between rolls of steel products comprises measuring continuously the roll separation strain (RSF) and a signal representative of the variations in this strain (RSF) generated as a function of time. The signal is used to act upon the roll separation to compensate for any untrue roundness of the rolls. During these measurements the signal is separated into different harmonic components and the resulting comparison of the harmonic components thus obtained with some reference harmonics is representative of the state of defects in the rolls. This state of defects in the rolls allows the definition of different rules for conducting the casting process as a function of the gravity of the roll defects measured.

IPC 1-7

B22D 11/06

IPC 8 full level

B22D 11/16 (2006.01); **B22D 11/06** (2006.01); **G05B 9/02** (2006.01)

CPC (source: EP KR US)

B22D 11/0622 (2013.01 - EP KR US); B22D 2/00 (2013.01 - KR); B22D 11/16 (2013.01 - KR)

Cited by

EP1294507A4

Designated contracting state (EPC)

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

DOCDB simple family (publication)

EP 0841112 A1 19980513; **EP 0841112 B1 20000524**; AT E193233 T1 20000615; AU 4361197 A 19980514; AU 717254 B2 20000323; BR 9705436 A 19990504; CA 2220887 A1 19980507; CA 2220887 C 20060314; CN 1069240 C 20010808; CN 1194895 A 19981007; CZ 291523 B6 20030312; CZ 351397 A3 19980715; DE 69702104 D1 20000629; DE 69702104 T2 20010215; DK 0841112 T3 20000911; ES 2146072 T3 20000716; FR 2755385 A1 19980507; FR 2755385 B1 19981231; GR 3033604 T3 20001031; JP 3907023 B2 20070418; JP H10146652 A 19980602; KR 100540617 B1 20060228; KR 19980042167 A 19980817; PL 184806 B1 20021231; PL 323065 A1 19980511; PT 841112 E 20000929; RO 119773 B1 20050330; RU 2169053 C2 20010620; SK 148697 A3 19981202; SK 282849 B6 20021203; TR 199701327 A2 19990823; TR 199701327 A3 19990823; TW 358045 B 19990511; UA 62912 C2 20040115; US 5927375 A 19990727; ZA 979752 B 19980522

DOCDB simple family (application)

EP 97402589 A 19971031; AT 97402589 T 19971031; AU 4361197 A 19971030; BR 9705436 A 19971231; CA 2220887 A 19971027; CN 97114366 A 19971107; CZ 351397 A 19971106; DE 69702104 T 19971031; DK 97402589 T 19971031; ES 97402589 T 19971031; FR 9613777 A 19961107; GR 20000401290 T 20000606; JP 32243497 A 19971107; KR 19970058548 A 19971106; PL 32306597 A 19971107; PT 97402589 T 19971031; RO 9702059 A 19971107; RU 97118650 A 19971106; SK 148697 A 19971104; TR 9701327 A 19971107; TW 86117649 A 19971125; UA 97115388 A 19971106; US 96611597 A 19971107; ZA 979752 A 19971030