

Title (en)
METHOD FOR LUBRICATING AND COOLING ROLLERS AND METAL STRIPS ON ROLLING IN PARTICULAR ON COLD ROLLING OF METAL STRIPS

Title (de)
VERFAHREN ZUM SCHMIEREN UND KÜHLEN VON WALZEN UND METALLBAND BEIM WALZEN, INSBESONDERE BEIM KALTWALZEN VON METALLBÄNDERN

Title (fr)
PROCEDE POUR LUBRIFIER ET REFROIDIR LES CYLINDRES ET LA BANDE METALLIQUE LORS DU LAMINAGE, NOTAMMENT LORS DU LAMINAGE A FROID DE BANDES METALLIQUES

Publication
EP 1924369 A1 20080528 (DE)

Application
EP 06791668 A 20060825

Priority
• EP 2006008359 W 20060825
• DE 102005042020 A 20050902

Abstract (en)
[origin: US2009282884A1] The invention relates to a method for lubricating and cooling rollers (3,4,5,6) and metal strips (2) on rolling in particular, on cold rolling of metal strips (2), wherein, on the inlet side (7a) a minimal amount of pure lubricant (9) without a high water content is continuously supplied in an online controlled manner with a controlled viscosity and lubricity depending on a number of process data measurements (23) by means of a physical computer model (22) and the equivalent process data measurements (23) from the outlet side (8a) are also used online by the physical computer model (22).

IPC 8 full level
B21B 37/32 (2006.01); **B21B 37/44** (2006.01)

CPC (source: EP KR US)
B21B 37/32 (2013.01 - EP KR US); **B21B 37/44** (2013.01 - EP KR US); **B21B 45/02** (2013.01 - KR); **B21B 3/00** (2013.01 - EP US); **B21B 27/10** (2013.01 - EP US); **B21B 37/26** (2013.01 - EP US); **B21B 45/0209** (2013.01 - EP US); **B21B 45/0218** (2013.01 - EP US); **B21B 45/0251** (2013.01 - EP US)

Citation (search report)
See references of WO 2007025682A1

Cited by
CN102451836A; DE102013108451B4

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
US 2009282884 A1 20091119; US 8001820 B2 20110823; AT E458560 T1 20100315; AU 2006286797 A1 20070308; AU 2006286797 B2 20101125; BR PI0614932 A2 20110426; CA 2618836 A1 20070308; CA 2618836 C 20120515; CN 101253007 A 20080827; DE 102005042020 A1 20070308; DE 502006006271 D1 20100408; EG 24894 A 20101213; EP 1924369 A1 20080528; EP 1924369 B1 20100224; ES 2340320 T3 20100601; JP 2009506891 A 20090219; JP 5164844 B2 20130321; KR 20080039339 A 20080507; MX 2008000869 A 20080326; MY 145255 A 20120113; RU 2008112666 A 20091010; RU 2426613 C2 20110820; TW 200722197 A 20070616; TW I359704 B 20120311; WO 2007025682 A1 20070308; ZA 200709988 B 20080827

DOCDB simple family (application)
US 98949806 A 20060825; AT 06791668 T 20060825; AU 2006286797 A 20060825; BR PI0614932 A 20060825; CA 2618836 A 20060825; CN 200680032022 A 20060825; DE 102005042020 A 20050902; DE 502006006271 T 20060825; EG 2008010046 A 20080110; EP 06791668 A 20060825; EP 2006008359 W 20060825; ES 06791668 T 20060825; JP 2008528392 A 20060825; KR 20077028179 A 20071203; MX 2008000869 A 20060825; MY PI20080475 A 20060825; RU 2008112666 A 20060825; TW 95131686 A 20060829; ZA 200709988 A 20071119