

Title (en)
CONTROL OF SURFACE EVENNESS FOR OBTAINING EVEN COLD STRIP

Title (de)
PLANHEITSREGELUNG ZUR ERZIELUNG VON PLANEM KALTBAND

Title (fr)
REGLAGE DE PLANEITE PERMETTANT D'OBTENIR UNE BANDE A FROID PLANE

Publication
EP 1161313 B1 20021127 (DE)

Application
EP 00929223 A 20000314

Priority
• DE 0000831 W 20000314
• DE 19912796 A 19990315

Abstract (en)
[origin: WO0054900A1] The invention relates to a method for rolling a strip in a strip rolling mill which has at least two roll stands or an individual stand with upper and lower, optionally adjustable working rolls respectively, said rolls being optionally supported indirectly on support rolls or with intermediate rolls. At least one pass is rolled in said rolls in order to modify the state of the rolled strip. A target distribution of stresses or any target form of unevenness is predetermined for the rolled strip and compared with the actual distribution of stresses and the mechanical or physical control elements are employed in such a way as to minimise the difference between the predetermined and actual distribution of stresses as far as possible. In addition to the actual distribution of stresses in the hot strip, the distribution of temperature over the width of the strip is determined and used to calculate the distribution of stresses which would be present after the strip has cooled if the strip were free of stresses in the hot state with the distribution of temperature that exists behind the roll gap and this temperature-induced distribution of stresses is used to correct the actual stress before this is compared with the target form of unevenness.

IPC 1-7
B21B 37/28

IPC 8 full level
B21B 37/28 (2006.01); **B21B 37/76** (2006.01)

CPC (source: EP KR)
B21B 37/28 (2013.01 - EP KR); **B21B 2261/21** (2013.01 - EP)

Cited by
CN105689405A

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
WO 0054900 A1 20000921; AT E228401 T1 20021215; AU 4741600 A 20001004; BR 0009025 A 20011226; CN 1343146 A 20020403; DE 19912796 A1 20001012; DE 50000828 D1 20030109; EP 1161313 A1 20011212; EP 1161313 B1 20021127; ES 2182801 T3 20030316; JP 2003504206 A 20030204; KR 20010112335 A 20011220; TR 200102682 T2 20020422

DOCDB simple family (application)
DE 0000831 W 20000314; AT 00929223 T 20000314; AU 4741600 A 20000314; BR 0009025 A 20000314; CN 00805065 A 20000314; DE 19912796 A 19990315; DE 50000828 T 20000314; EP 00929223 A 20000314; ES 00929223 T 20000314; JP 2000604963 A 20000314; KR 20017011711 A 20010914; TR 200102682 T 20000314