

Title (en)

Method for the optimization of the configuration of multiroll mill housings, particularly for cluster-type mills

Title (de)

Verfahren zur Optimierung der Konfiguration der Walzenstände von Vielwalzenwerken, insbesondere von Cluster-Walzwerken

Title (fr)

Procédé pour l'optimisation de la configuration des cages de laminoirs à cylindres multiples, en particulier de laminoirs de type cluster

Publication

EP 0927582 A3 20021211 (EN)

Application

EP 98204394 A 19981223

Priority

IT MI972907 A 19971231

Abstract (en)

[origin: EP0927582A2] A method for the optimization of the configuration of multi-roll mill housings, particularly for mills of the cluster type constituted by two half-housings, said housings comprising eccentric rolls, first intermediate rolls, second intermediate rolls, and work rolls, characterized in that it comprises the steps that consist in: calculating the coordinates of the center of rotation of first intermediate rolls, second intermediate rolls and work rolls on the basis of data related to the position of eccentric rolls and to the diameter of said eccentric rolls; calculating a position value for said eccentric rolls which satisfies mechanical constraints set by the configuration of said mill; calculating the current minimum distance between a line which is tangent to each work roll and a reference axis which represents the edge of the corresponding housing section; and calculating the minimum and maximum values of the diameters of part of the rolls of the housing as a function of the diameter of the remaining rolls provided in the housing. <IMAGE>

IPC 1-7

B21B 38/10; **B21B 31/26**

IPC 8 full level

B21B 31/26 (2006.01); **B21B 38/10** (2006.01); **B21B 13/14** (2006.01); **B21B 31/10** (2006.01)

CPC (source: EP)

B21B 31/26 (2013.01); **B21B 38/10** (2013.01); **B21B 13/147** (2013.01); **B21B 31/10** (2013.01)

Citation (search report)

- [A] US 4248073 A 19810203 - VERBICKAS ROBERT C, et al
- [A] MARCOLINI M: "ABB MASTER IN CONTROL OF SENDZIMIR MILLS", ABB REVIEW, - July 1993 (1993-07-01), pages 17-28, XP000394228
- [A] PATENT ABSTRACTS OF JAPAN vol. 015, no. 244 (M - 1127) 24 June 1991 (1991-06-24)

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)

EP 0927582 A2 19990707; **EP 0927582 A3 20021211**; **EP 0927582 B1 20041020**; AT E280002 T1 20041115; DE 69827107 D1 20041125; DE 69827107 T2 20060223; ES 2232912 T3 20050601; IT 1297043 B1 19990803; IT MI972907 A1 19990701

DOCDB simple family (application)

EP 98204394 A 19981223; AT 98204394 T 19981223; DE 69827107 T 19981223; ES 98204394 T 19981223; IT MI972907 A 19971231