Title (en)

ROLLING MILL

Publication

EP 0049798 B1 19840418 (DE)

Application

EP 81107692 A 19810928

Priority

DE 3038865 A 19801015

Abstract (en)

[origin: US4440012A] A rolling stand has a conventional housing defining a pair of parallel and spaced axes defining a plane. Respective rolls have roll ends journaled in the housing at the axes and roll bodies axially symmetrical about the respective axes and having centered on the respective axes complementary roll-body surfaces of noncylindrical shape and each formed by rotation of a continuously curved generatrix about the respective axis. One of these contoured rolls is displaceable axially relative to the other roll from an end position to another position, and the roll-body surfaces form at the plane in the other position a uniform nip and in the end position a nonuniform nip. This system is set up to be able to displace one of the rolls axially relative to the other of the rolls between the end position and the other position. These contoured rolls may themselves define the nip, or may engage and deform other rolls that define it.

IPC 1-7

B21B 31/18; B21B 13/14; B21B 27/02

IPC 8 full level

B21B 27/02 (2006.01); **B21B 13/14** (2006.01); **B21B 29/00** (2006.01); **B21B 31/18** (2006.01)

CPC (source: EP US)

B21B 13/142 (2013.01 - EP US)

Cited by

EP0235769A3; DE19830033C1; US4781051A; EP0255714A3; US4805433A; EP0263334A3; DE3634367A1; US5021265A; GB2222376A; GB2222376B; CN103447312A; DE3624241A1; EP0254904A3; US4798074A; DE3624241C2; DE19736767A1; US5964116A; AU731151B2; DE19736767C2; DE3720610A1; US7316146B2; WO0119544A1; US8210015B2; US6324881B1; EP0967024A2; EP0153849B1; EP0543014B2; EP1228818B2

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EP 81107692 A 19810928; AT 81107692 T 19810928; DE 3038865 A 19801015; DE 3163226 T 19810928; JP 16212381 A 19811013; JP 5218289 A 19890306; JP 5218389 A 19890306; SU 3344741 A 19811014; US 31144981 A 19811014