

Title (en)  
Rolling mill.

Title (de)  
Walzwerk.

Title (fr)  
Laminoir.

Publication  
**EP 0049798 A2 19820421 (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.

Abstract (de)  
Bei einem Walzwerk 1 soll die Gestalt des Walzspaltes 8 praktisch ausschließlich durch Axialverschiebung der mit einer gekrümmten Kontur versehenen Walzen 3, 4 beeinflusst und die Kantenpressung des Walzbandes 9 ohne besonderen Aufwand verringert werden. Hierzu verläuft die gekrümmte Kontur über die gesamte Ballenlänge beider Walzen 3, 4 und hat eine Gestalt, bei welcher die beiden Ballenkonturen sich ausschließlich in einer bestimmten relativen Axialstellung dieser Walzen 3, 4 komplementär ergänzen.

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

Designated contracting state (EPC)  
AT DE FR GB IT

DOCDB simple family (publication)  
**EP 0049798 A2 19820421**; **EP 0049798 A3 19820602**; **EP 0049798 B1 19840418**; AT E7114 T1 19840515; DE 3038865 C1 19821223; DE 3163226 D1 19840524; JP H01266901 A 19891024; JP H01266902 A 19891024; JP H0411281 B2 19920228; JP H0616885 B2 19940309; JP H0669578 B2 19940907; JP S5791807 A 19820608; SU 1306468 A3 19870423; US 4440012 A 19840403

DOCDB simple family (application)  
**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