

Title (en)

ROLL ASSEMBLY OF SEVERAL PARTS CONSISTING OF A DRIVEN ARBOR AND DETACHABLE ROLL-RING

Publication

EP 0311911 B1 19920916 (DE)

Application

EP 88116560 A 19881006

Priority

DE 3735098 A 19871016

Abstract (en)

[origin: EP0311911A2] The arbor is formed by two annular collars 1, 2 which, with their front sides facing each other, can each be placed on one of the two front sides of the roll-ring 10. Connected to one of the annular collars 2 is an axial clamping device 7, 14a which is passed centrally, with radial clearance, through the other annular collar 1 and acts on the latter at the front side facing away from the roll-ring 10. Those front sides of the annular collars 1, 2 which face the roll-ring 10 here have a plurality of annular bearing faces 1f, 1g, which extend outwards with a different inclination with respect to the radial of the centre line and can be placed on corresponding mating faces on the front sides of the roll-ring 10. The number and inclination of these annular bearing faces 1f, 1g, their distance from the centre line and the size of the bearing pressure exerted by the clamping device 14a on these faces are dimensioned in such a way that the tensile bending stresses to be expected during the operation of the roll, which occur at their outer periphery, are considerably reduced by this pressure. <IMAGE>

IPC 1-7

B21B 27/02

IPC 8 full level

B21B 27/02 (2006.01); **B21B 27/03** (2006.01)

CPC (source: EP)

B21B 27/035 (2013.01)

Cited by

FR2743523A1; CN107672271A

Designated contracting state (EPC)

AT DE ES FR GB IT SE

DOCDB simple family (publication)

EP 0311911 A2 19890419; **EP 0311911 A3 19891004**; **EP 0311911 B1 19920916**; AT E80568 T1 19921015; DE 3735098 A1 19890427; DE 3874666 D1 19921022; ES 2035206 T3 19930416; JP H01133604 A 19890525

DOCDB simple family (application)

EP 88116560 A 19881006; AT 88116560 T 19881006; DE 3735098 A 19871016; DE 3874666 T 19881006; ES 88116560 T 19881006; JP 25741888 A 19881014