

Title (en)
ROLLING MILL ROLL WITH A RING MOUNTED ON A ROLL SHAFT

Publication
EP 0343440 B1 19910904 (DE)

Application
EP 89108513 A 19890511

Priority
DE 8806968 U 19880527

Abstract (en)
[origin: US4841612A] A roll device is made with roll rings clamped axially between a shaft collar and an adjustable ring stop. The ring stop comprises a ring which is fixed to the shaft and which can be designed, for example, as a threaded nut, and an adjusting ring. The ring fixed to the shaft and the adjusting ring interact via sawtooth-shaped end faces.

IPC 1-7
B21B 27/02; **F16B 31/00**; **F16D 1/06**

IPC 8 full level
B21B 27/02 (2006.01); **B21B 27/03** (2006.01); **F16B 31/00** (2006.01); **F16C 13/00** (2006.01); **F16D 1/06** (2006.01); **B21B 13/00** (2006.01)

CPC (source: EP US)
B21B 27/035 (2013.01 - EP US); **B21B 2013/006** (2013.01 - EP US)

Cited by
EP1066890A1; DE10302660B4; EP1733813A1; EP1733812A1; US5109585A; EP1733815A1; CN110340150A; US6286394B1; US7572215B2; US8133162B2; WO0074869A1; WO9207668A1; US7582046B2; EP3378577A1

Designated contracting state (EPC)
AT BE DE ES FR GB IT LU

DOCDB simple family (publication)
DE 8806968 U1 19880728; AT E66836 T1 19910915; DD 286977 A5 19910214; DE 58900255 D1 19911010; EP 0343440 A1 19891129; EP 0343440 B1 19910904; ES 2026288 T3 19920416; JP H0235213 A 19900205; JP H0517405 B2 19930309; SU 1715199 A3 19920223; US 4841612 A 19890627; US 4932111 A 19900612

DOCDB simple family (application)
DE 8806968 U 19880527; AT 89108513 T 19890511; DD 32891089 A 19890525; DE 58900255 T 19890511; EP 89108513 A 19890511; ES 89108513 T 19890511; JP 13447689 A 19890526; SU 4614157 A 19890526; US 21529988 A 19880705; US 34904389 A 19890509