

Title (en)

Rotary drive for reciprocal roll-off roll grooves of a cold pilger mill

Title (de)

Drehantrieb von reziprok abwälzbaren Walzenkalibern eines Kaltpilgerwalzwerkes

Title (fr)

Entraînement rotatif pour calibres de cylindres à mouvement de roulement réciproque, d'un laminoir à pas de pélerin à frois

Publication

EP 1203622 A3 20041222 (DE)

Application

EP 01122065 A 20010914

Priority

DE 10054268 A 20001102

Abstract (en)

[origin: EP1203622A2] The rolling curve of the drive pinions of ring rollers are adapted to the neutral zone in decreasing caliber of the ring rollers of a cold pilger rolling mill, by using circular pinions, which are positioned eccentrically on and fastened to the roller shaft. Sinusoidal toothed racks are used to drive pinions and ring rollers. If circular eccentric pinions are used, which mesh with sinusoidal racks, for parameters can be adapted to actual roller dimensions:- roller diameter, pinion reference circle, eccentricity, angular position of eccentricity relative to entrance dead center of roller stand.

IPC 1-7

B21B 21/00

IPC 8 full level

B21B 21/06 (2006.01); **B21B 21/00** (2006.01)

CPC (source: EP KR US)

B21B 21/005 (2013.01 - EP US); **B21B 21/06** (2013.01 - KR)

Citation (search report)

- [XA] US 1980186 A 19341113 - ROBERT COE JAMES
- [XA] SU 175912 A
- [A] DE 19804162 A1 19991223 - WOLF WALTER [DE]
- [DA] DE 1752996 A1 19710729 - VNI I P METALL MASH
- [XA] SOVIET INVENTIONS ILLUSTRATED, SECTION CH: CHEMICAL., June 1966 (1966-06-01), DERWENT PUBLICATIONS LTD.,LONDON., GB, XP002301497

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

EP 1203622 A2 20020508; EP 1203622 A3 20041222; CN 1351909 A 20020605; DE 10054268 A1 20020508; JP 2002153903 A 20020528; KR 20020034859 A 20020509; RU 2001129641 A 20030927; US 2002121119 A1 20020905

DOCDB simple family (application)

EP 01122065 A 20010914; CN 01137286 A 20011102; DE 10054268 A 20001102; JP 2001296911 A 20010927; KR 20010055719 A 20010911; RU 2001129641 A 20011101; US 84201 A 20011101