

Title (en)

Cold pilger mill with a reciprocable rolling stand.

Title (de)

Kaltpilgerwalzwerk mit hin- und herbewegbarem Walzgerüst.

Title (fr)

Laminoin à pas de pèlerin à froid comportant une cage de laminoin mobile en va-et-vient.

Publication

EP 0524711 B1 19941019 (DE)

Application

EP 92250184 A 19920713

Priority

DE 4124691 A 19910722

Abstract (en)

[origin: US5224369A] A cold pilger rolling mill includes a reciprocating roll stand and a crank drive connected to the roll stand through connecting rods. The crank drive includes three shafts arranged parallel to each other and spaced apart at equal distances. The middle shaft is a crank shaft connected through crank pins with the connecting rod. A main weight for balancing half of the inertia forces of the roll stand is arranged eccentrically relative to the axis of rotation on the crank of the crank pin offset by 180 DEG from the pivot point of the connecting rod. On the two other shafts are arranged two additional weights of equal size which balance the other half of the inertia forces of the roll stand. For a synchronous rotation of the shafts and their weights, the shafts are connected by spur gears meshing with each other in such a manner that the additional weights rotate in opposite directions to the main weight with the same rate of rotation and, at the dead centers of the roll stand, the sum of the main weight and the additional weights acting on the roll stand corresponds to the inertia forces of the roll stand and of any other weights moved with the roll stand.

IPC 1-7

B21B 21/00; **F16F 15/26**

IPC 8 full level

B21B 13/00 (2006.01); **B21B 21/00** (2006.01); **F16F 15/26** (2006.01)

CPC (source: EP KR US)

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Cited by

DE102013112371A1; EP1396292A1; EP0908245A1; US5916320A; WO2014095746A1; US9796007B2

Designated contracting state (EPC)

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US 5224369 A 19930706; AT E112987 T1 19941115; CA 2074343 A1 19930123; CN 1026762 C 19941130; CN 1068759 A 19930210; CZ 213892 A3 19930217; CZ 281087 B6 19960612; DE 4124691 C1 19920227; DE 59200650 D1 19941124; EP 0524711 A2 19930127; EP 0524711 A3 19930804; EP 0524711 B1 19941019; JP H05185118 A 19930727; KR 930001999 A 19930222; RU 2048218 C1 19951120

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