

Title (en)

APPARATUS FOR ADVANCING ROLLED STRIP

Publication

EP 0192982 A3 19890329 (DE)

Application

EP 86101127 A 19860129

Priority

DE 3507251 A 19850301

Abstract (en)

[origin: US4759485A] The drive apparatus is for rolling mills, especially for those which are subjecting the strip to a heat treating operation in wide-strip rolling-mill trains. The lower drive roll is mounted in the frame, and with reference to the upper drive roll which is connected to the swing arm, so as to be capable of performing adjusting and swinging movements. The respective housings of the lower drive roll are connected to hydraulically operated swing cylinders and position indicator devices. When the pressure control is operative the contact force at the rolls is a function of the prevailing hydraulic pressure. The apparatus also allows automatic zeroing of the drive roll gap.

IPC 1-7

B21C 47/34; B21D 43/09

IPC 8 full level

B21C 47/00 (2006.01); **B21B 39/08** (2006.01); **B21C 47/34** (2006.01); **B21D 43/09** (2006.01); **B65H 20/02** (2006.01); **B21B 39/00** (2006.01)

CPC (source: EP US)

B21C 47/34 (2013.01 - EP US); **B21C 47/3425** (2013.01 - EP US); **B21D 43/09** (2013.01 - EP US); **B65H 20/02** (2013.01 - EP US);
B21B 39/006 (2013.01 - EP US)

Citation (search report)

- [X] FR 2276111 A1 19760123 - BBC BROWN BOVERI & CIE [CH]
- [X] GB 2138180 A 19841017 - ISHIKAWAJIMA HARIMA HEAVY IND
- [Y] EP 0021995 A1 19810107 - SECIM [FR]
- [X] DE 2952461 A1 19800710 - HITACHI LTD, et al
- [Y] FR 2346066 A1 19771028 - SCHLOEMANN SIEMAG AG [DE]
- [AD] FR 2371976 A1 19780623 - SCHLOEMANN SIEMAG AG [DE]
- [X] PATENT ABSTRACTS OF JAPAN, Band 9, Nr. 46 (M-360)[1769], 27. Februar 1985; & JP-A-59 185 515 (SHIN NIPPON SEITETSU K.K.) 22-10-1984
- [X] PATENT ABSTRACTS OF JAPAN, Band 6, Nr. 207 (M-165)[1085], 19. Oktober 1982; & JP-A-57 112 919 (ISHIKAWAJIMA HARIMA JUKOGYO K.K.) 14-07-1982
- [X] PATENT ABSTRACTS OF JAPAN, Band 6, Nr. 74 (M-127)[952], 11. Mai 1982; & JP-A-57 014 411 (ISHIKAWAJIMA HARIMA JUKOGYO K.K.) 25-01-1982
- [A] SOVIET INVENTIONS ILLUSTRATED, Woche B19, 20. Juni 1979, Sektion Mechanik, Zusammenfassung Nr. 36822B/19, Derwent Publications Ltd, London, GB; & SU-A-613 836 (FOMIN G.G.) 16-06-1978
- [A] SOVIET INVENTIONS ILLUSTRATED, Woche K50, 1. Februar 1984, Sektion Mechanik, Zusammenfassung Nr. 83-843642/50, Derwent Publications Ltd, London, GB; & SU-A-997 900 (METALLURG EQUIP CONSTR.) 23-02-1983

Cited by

CN104649052A; CN103639314A; AT510149B1; EP0805022A1; EP0790084A3; EP0747147A3; CN1071692C; ITMI20111274A1; CN103702776A; US9132460B2; WO2013008159A2; WO2013008159A3

Designated contracting state (EPC)

BE DE FR IT NL

DOCDB simple family (publication)

EP 0192982 A2 19860903; EP 0192982 A3 19890329; EP 0192982 B1 19910925; DE 3507251 A1 19860904; DE 3681605 D1 19911031;
JP H0526568 B2 19930416; JP S61262424 A 19861120; US 4759485 A 19880726

DOCDB simple family (application)

EP 86101127 A 19860129; DE 3507251 A 19850301; DE 3681605 T 19860129; JP 4203086 A 19860228; US 83462886 A 19860227