

Title (en)

Straightening machine for rolled beams, in particular hyper-beams

Title (de)

Richtmaschine für gewalzte Träger, insbesondere Hyper-Beams

Title (fr)

Machine pour le dressage des poutres laminées, en particulier des hyper-beams

Publication

EP 0721810 A1 19960717 (DE)

Application

EP 95100415 A 19950113

Priority

- EP 95100415 A 19950113
- DE 4324416 A 19930721
- JP 591895 A 19950118
- US 37590695 A 19950120

Abstract (en)

The straightening machine for rolled beams, in partic. hyper-beams, incorporates axially adjustable straightening disks which are mounted on a shaft (1) and contact beam flanges from inside, and are used for straightening at least one of the two beam flanges. The machine is characterised by the fact that a carrier ring (20) with several hydraulic cylinders (23) uniformly distributed over its circumference is located between the straightening disks (2,3), with the piston rods (24) attached to one (3) of the disks. The hydraulic cylinders (23) are screwed into the carrier ring (20). These cylinders are connected to one another by means of a ring channel for the pressure medium. They are provided with connections for the pressure medium for setting, retraction and locking of the piston. Alternatively, retraction of the piston takes place by means of a spring. The carrier ring has an axial bore with a displacement sensor.

Abstract (de)

Eine Richtmaschine für gewalzte Träger, insbesondere Hyper-Beams, bei der mindestens eine der beiden den Trägerflanschen (11) von innen her anliegenden, von einer drehbaren Richtwelle (1) getragenen Richtscheiben (2, 3) axial verstellbar ist, erlaubt es auf einfache, wartungsfreundliche Weise, daß Außen- bzw. Kammermaß der Richtscheiben (2, 3) schnell zu verändern, wenn zwischen den Richtscheiben (2, 3) ein Tragring (20) für mehrere darin über den Umfang verteilte Hydraulikzylinder (23) angeordnet ist, deren Stellkolben (24) mit einer Richtscheibe (3) verbunden sind.

<IMAGE>

IPC 1-7

B21B 27/02; **B21D 3/05**

IPC 8 full level

B21B 27/02 (2006.01); **B21D 3/05** (2006.01)

CPC (source: EP US)

B21D 3/05 (2013.01 - EP US)

Citation (search report)

- [DA] DE 3522976 A1 19870108 - SCHLOEMANN SIEMAG AG [DE]
- [X] DE 4232407 A1 19940407 - HOESTEMBERGHE & KLUETSCH GMBH [DE]
- [A] EP 0509136 A1 19921021 - NIPPON KOKAN KK [JP], et al
- [A] EP 0443725 A1 19910828 - SUMITOMO METAL IND [JP]
- [A] US 5152164 A 19921006 - HORIUCHI YASUSHI [JP], et al
- [X] PATENT ABSTRACTS OF JAPAN vol. 9, no. 330 (M - 442) 25 December 1985 (1985-12-25)

Cited by

CN105834253A

Designated contracting state (EPC)

AT DE ES GB IT

DOCDB simple family (publication)

US 5644939 A 19970708; AT E164788 T1 19980415; DE 4324416 A1 19950126; DE 59501843 D1 19980514; EP 0721810 A1 19960717; EP 0721810 B1 19980408; ES 2115271 T3 19980616; JP 3558398 B2 20040825; JP H08197141 A 19960806

DOCDB simple family (application)

US 37590695 A 19950120; AT 95100415 T 19950113; DE 4324416 A 19930721; DE 59501843 T 19950113; EP 95100415 A 19950113; ES 95100415 T 19950113; JP 591895 A 19950118