

Title (en)

Apparatus for reducing the width of a steel slab by rolling.

Title (de)

Gerät zur Breitenverminderung einer Stahlbramme durch Walzen.

Title (fr)

Appareil pour la réduction de la largeur d'une brame d'acier par laminage.

Publication

EP 0091156 A1 19831012 (EN)

Application

EP 83200418 A 19830325

Priority

NL 8201499 A 19820407

Abstract (en)

In order to minimise the dog-bone and fish-tail deformations of a slab (1) during width rolling, the rolling surfaces (3) of the rolling elements (8) have a radius of curvature of at least 0.6 m. The radius may be e.g. 5 m. To avoid the technical and economic drawbacks of cylindrical rolls of this radius, the rolling elements (8) have a curved surface (3) in the zone of rolling contact extending for an angular length of less than 180 DEG , preferably less than 90 DEG . Preferably the rolling elements (8) are less thick, in the direction transverse to the rolling direction, than the radius of curvature of the curved surfaces (3). They may be arcuate segments running on guide rollers (14). The segments may be flexible, the radius of curvature being determined by the positions of the guide rollers (14). The curved surface may be provided by an endless conveyor (15) running on guide rollers.

IPC 1-7

B21B 1/02

IPC 8 full level

B21B 1/22 (2006.01); **B21B 1/02** (2006.01); **B21B 1/26** (2006.01); **B21B 13/06** (2006.01); **B21B 13/18** (2006.01)

CPC (source: EP)

B21B 1/026 (2013.01); **B21B 13/06** (2013.01); **B21B 13/18** (2013.01)

Citation (search report)

- [AD] JP S56114501 A 19810909 - NIPPON STEEL CORP
- [D] NL 6703983 A 19670919

Cited by

NL9301269A

Designated contracting state (EPC)

AT BE DE FR GB IT LU SE

DOCDB simple family (publication)

EP 0091156 A1 19831012; **EP 0091156 B1 19850807**; AT E14685 T1 19850815; DE 3360508 D1 19850912; JP S58187202 A 19831101; NL 8201499 A 19831101

DOCDB simple family (application)

EP 83200418 A 19830325; AT 83200418 T 19830325; DE 3360508 T 19830325; JP 5938083 A 19830406; NL 8201499 A 19820407