

Title (en)
Roll stand arrangement for single strand rolling

Title (de)
Walzgerüstanordnung für einadriges Walzen

Title (fr)
Structure de cage de laminoir pour laminage à ligne unique

Publication
EP 0810043 B1 20000802 (DE)

Application
EP 97107988 A 19970516

Priority
DE 19622155 A 19960601

Abstract (en)
[origin: EP0810043A1] The rolling stand assembly for single line rolling consists of a row of housings (6, 7). Each of the housings accommodates a pair of roll shafts and their drive. The housings are provided with side flanges, are oriented at an angle relative to the rolling line in an alternating manner, and are mounted on a support structure consisting of a base plate (3) and pairs of vertical support plates (1, 2) with seating surfaces (1a, 2a). Stiffening ribs (5) are positioned between the vertical support plates. The ribs (5) are joined to the base plate (3) and to the side surfaces of the vertical support plates. The stiffening ribs (5) take the form of a symmetrically bent plate whose parallel edges (5a) are joined to the base plate (3) while its angled edges are joined to the side surfaces of the support plates (1, 2). The outer surfaces of the stiffening ribs are distanced from the outer surfaces of the housings (6, 7). The seating surfaces (1a, 2a) lie in a plane which is parallel to the horizontal middle rolling plane. The side flanges of the housings (6, 7) consist of sections (8a, 8b; 9a, 9b) oriented at right angles to one another. The ribs (5) can function as chute surfaces for scale. The cavities bounded by the base plate, the ribs and the vertical support plate can be filled with a solidifying material such as concrete. Such filler material can be reinforced with elements joined to the inner surface of the ribs, the base plate or the vertical support plates.

IPC 1-7
B21B 31/06; **B21B 13/00**

IPC 8 full level
B21B 1/16 (2006.01); **B21B 13/00** (2006.01); **B21B 1/18** (2006.01); **B21B 31/02** (2006.01); **B21B 31/06** (2006.01)

CPC (source: EP KR US)
B21B 13/00 (2013.01 - KR); **B21B 13/005** (2013.01 - EP US); **B21B 31/06** (2013.01 - EP KR US)

Designated contracting state (EPC)
AT DE FR GB IT SE

DOCDB simple family (publication)
EP 0810043 A1 19971203; **EP 0810043 B1 20000802**; AT E195083 T1 20000815; CN 1102466 C 20030305; CN 1170639 A 19980121; DE 19622155 A1 19971204; DE 59702102 D1 20000907; JP H1052704 A 19980224; KR 980000668 A 19980330; US 5927128 A 19990727

DOCDB simple family (application)
EP 97107988 A 19970516; AT 97107988 T 19970516; CN 97111461 A 19970530; DE 19622155 A 19960601; DE 59702102 T 19970516; JP 14230197 A 19970530; KR 19970022345 A 19970531; US 86274397 A 19970523