

Title (en)

Vertical continuous annealing furnace and its operating method.

Title (de)

Durchzieh-Glühofen vertikaler Bauart und Betriebsverfahren.

Title (fr)

Four à recuire en continu disposé verticalement et son mode d'exploitation.

Publication

EP 0085733 A1 19830817 (EN)

Application

EP 82100981 A 19820210

Priority

EP 82100981 A 19820210

Abstract (en)

The vertical continuous annealing furnace has two furnace covers (21, 41) vertically spaced away from each other. Each furnace cover (21; 41) is laterally slidable with respect to the furnace body (11) and has two long narrow openings (25, 26; 45, 46) through which a strip (1) is passed. There is a relatively small pre-chamber (15) between the first furnace cover (21) above and the second furnace cover (41) below. The space below the second furnace cover (41) constitutes a heating chamber (16). A partition (47) extends from the under surface of the second furnace cover (41) to near the bottom of the furnace, dividing the heating chamber (16) into a heating zone (16a) and a soaking zone (16b). In the method for charging and discharging the strip (1) the two furnace covers (21, 41) are alternately opened and closed, thereby keeping the heating chamber (16) out of exposure to the outside air.

IPC 1-7

C21D 9/56; C21D 9/573

IPC 8 full level

C21D 9/56 (2006.01)

CPC (source: EP)

C21D 9/56 (2013.01)

Citation (search report)

- [A] US 1811522 A 19310623 - SHOVER BARTON R, et al
- [A] US 1890065 A 19321206 - MEEHAN PAUL A
- [A] US 2009856 A 19350730 - OTIS ALBERT N, et al
- [A] US 2499191 A 19500228 - JONES NORMAN B, et al
- [A] US 3152794 A 19641013 - ALEXEFF ALEXANDER V, et al
- [A] US 3496033 A 19700217 - GILBREATH EDDIE W JR, et al
- [A] DE 670248 C 19390116 - BBC BROWN BOVERI & CIE
- [A] DE 705764 C 19410509 - BBC BROWN BOVERI & CIE
- [AD] Patent Abstracts of Japan, Vol. 3, Nr. 11, 30 January 1979, page 107C35; & JP-A-53 135 808

Cited by

CN113462881A; NL1013752C2; GB2163242A; CN112063809A

Designated contracting state (EPC)

DE FR GB IT SE

DOCDB simple family (publication)

EP 0085733 A1 19830817; EP 0085733 B1 19860521; DE 3271225 D1 19860626

DOCDB simple family (application)

EP 82100981 A 19820210; DE 3271225 T 19820210