

Title (en)

Device for horizontal spray compacting.

Title (de)

Einrichtung zur horizontalen Sprühkompaktierung.

Title (fr)

Installation de compacter pour pulvériser horizontalement.

Publication

EP 0380827 B1 19940706 (DE)

Application

EP 89250125 A 19891221

Priority

- DE 3903597 A 19890203
- DE 3905873 A 19890223

Abstract (en)

[origin: US5060713A] The apparatus includes a spray chamber having a transport device for positioning a billet adjacent a nozzle for spraying a stream of molten metal onto the surface of the billet. The billet is engaged by a tandem arrangement of holding devices which are attached to driven ring gears. With the holding devices engaging the billet rotation of the ring gears rotates the billet about its longitudinal axis as the billet is sprayed with molten metal from the nozzle. As the billet is rotated it is also moved longitudinally by servo-cylinders attached to the ring gears. The servo-cylinders advance and retract in sequence as the ring gears rotate to generate combined longitudinal and rotational movement of the billet adjacent the nozzle. Thus a uniform layer of metal is deposited over length of the billet to form a round billet exclusively by spray-casting.

IPC 1-7

B22D 23/00; **C23C 4/12**

IPC 8 full level

B05B 7/16 (2006.01); **B22D 23/00** (2006.01); **B22F 3/115** (2006.01); **C23C 4/12** (2006.01); **C23C 4/14** (2006.01)

CPC (source: EP US)

B22D 23/003 (2013.01 - EP US); **B22F 3/115** (2013.01 - EP US); **C23C 4/123** (2016.01 - EP US)

Designated contracting state (EPC)

AT BE CH FR GB IT LI NL SE

DOCDB simple family (publication)

US 5060713 A 19911029; AT E108107 T1 19940715; DE 3905873 C1 19900208; EP 0380827 A2 19900808; EP 0380827 A3 19920129; EP 0380827 B1 19940706; JP H02240248 A 19900925

DOCDB simple family (application)

US 47428390 A 19900205; AT 89250125 T 19891221; DE 3905873 A 19890223; EP 89250125 A 19891221; JP 2359990 A 19900201