

Title (en)

SPRAY DEVICE, IN PARTICULAR FOR THE LINING OF SMELT FURNACES, LADLES OR THE LIKE

Publication

EP 0099542 B1 19870527 (DE)

Application

EP 83106821 A 19830712

Priority

DE 3227034 A 19820720

Abstract (en)

[origin: EP0099542A2] 1. Spray-filling device particularly for repairing the lining of melting furnaces, foundry ladles or the like, which device is adapted to spray-fill the inner wall (12) of a cavity substantially presenting rotation symmetry with a material adhering on this inner wall, comprising a) a carrier (16) movable into the cavity by displacement means in the direction of the displacement, b) a material spraying device (18), which b1) has a spray nozzle (22), b2) is rotatably mounted on the carrier (16), b3) is rotatable about an axis (26) parallel to the direction of the displacement through a driving motor (24) located on the carrier (16), c) a sensor (28), which responds to the burn-out of the inner wall (12) and d) which is controllable by the driving motor (24) such, that the rotary movement of the material spraying device (18) is retarded when the sensor (28) responds, characterized in that e) the spray nozzle (22) is radially movable and f) an actuating device is provided for adjusting the spray nozzle (22) to hold the spray nozzle (22) always substantially at a predetermined optimal distance from the inner wall (12).

IPC 1-7

F27D 1/16; **C21C 5/44**; **C21C 5/32**

IPC 8 full level

B22D 41/02 (2006.01); **C21C 5/32** (2006.01); **C21C 5/44** (2006.01); **F27D 1/16** (2006.01); **F27D 21/00** (2006.01)

CPC (source: EP)

B22D 41/023 (2013.01); **C21C 5/441** (2013.01); **F27D 1/1642** (2013.01); **F27D 21/0021** (2013.01)

Cited by

CN114460075A

Designated contracting state (EPC)

AT DE FR IT

DOCDB simple family (publication)

EP 0099542 A2 19840201; **EP 0099542 A3 19850502**; **EP 0099542 B1 19870527**; AT E27483 T1 19870615; DE 3227034 A1 19840126; DE 3371808 D1 19870702

DOCDB simple family (application)

EP 83106821 A 19830712; AT 83106821 T 19830712; DE 3227034 A 19820720; DE 3371808 T 19830712