

Title (en)  
AUTOMATIC INSTALLATION FOR LINING THE INNER WALL OF A VESSEL

Publication  
**EP 0230593 B1 19900328 (FR)**

Application  
**EP 86117306 A 19861212**

Priority  
LU 86272 A 19860128

Abstract (en)  
[origin: US4827689A] A brick-laying apparatus comprises a work platform vertically movable within a vessel and capable of rotating about the vertical axis of the vessel; and a robot for manipulating and laying bricks along the brick lining of the wall. The robot is mounted on a support capable of pivoting about a first vertical axis. To increase the effective radius of the robot, the support is mounted on an extension piece pivotable about a second vertical axis. The brick-laying apparatus is particularly well suited for repairing the refractory covering of a metallurgical converter.

IPC 1-7  
**C21C 5/44; F27D 1/16**

IPC 8 full level  
**C21C 5/44** (2006.01); **E04G 21/22** (2006.01); **F27D 1/16** (2006.01)

CPC (source: EP US)  
**C21C 5/441** (2013.01 - EP US); **F27D 1/1621** (2013.01 - EP US)

Cited by  
FR2623891A1; BE1001784A3

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AT BE DE ES FR GB IT NL SE

DOCDB simple family (publication)  
**EP 0230593 A1 19870805; EP 0230593 B1 19900328**; AT E51416 T1 19900415; DE 3669890 D1 19900503; ES 2013595 B3 19900516; JP S62178884 A 19870805; LU 86272 A1 19870903; US 4827689 A 19890509

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**EP 86117306 A 19861212**; AT 86117306 T 19861212; DE 3669890 T 19861212; ES 86117306 T 19861212; JP 736787 A 19870114; LU 86272 A 19860128; US 377587 A 19870116