

Title (en)

Automated installation to put bricks onto the interior face of a vessel.

Title (de)

Automatisierte Vorrichtung zum Ausmauern eines Gefäßes.

Title (fr)

Installation automatisée pour briqueter la paroi intérieure d'une enceinte.

Publication

**EP 0248251 A1 19871209 (FR)**

Application

**EP 87107127 A 19870516**

Priority

LU 86458 A 19860605

Abstract (en)

[origin: US4786227A] The apparatus of the present invention utilizes a bricklaying robot which comprises an automatic brick-handling or grabbing device fastened to the end of a main arm which is carried by a frame mounted on a work platform; and which is radially movable relative to the platform. Circular movement of the arm and of the grabbing device relative to the vertical axis of the work platform is generated as result of a rotation of the platform about this vertical axis. The present invention also utilizes a storage table which is mounted underneath the main arm of the robot, so as to be movable along a vertical axis and rotatable about the axis. The present invention further includes an automatic depalletizing mechanism comprising a pivoting arm, of which one of the ends is equipped with a brick-grasping device and the other end is mounted pivotally on a support sliding parallel to the main arm of the robot between two rails of the frame. This brick lining apparatus is less bulky than known prior art apparatuses and offers monitoring personnel a greater degree of safety.

Abstract (fr)

L'installation comporte une plate-forme de travail (20) déplaçable verticalement et capable de tourner autour de son axe vertical, un dispositif pour monter et descendre des palettes de briques (42), un automate de dépalettisation (78), un robot de manutention (62), ainsi qu'un poste de surveillance (24). Le robot (62) est constitué essentiellement d'un grappin automatique (70) de manutention des briques, fixé à l'extrémité d'un bras principal (64) qui est porté par un châssis (22) monté sur la plate-forme (20) et qui est déplaçable radialement par rapport à la plate-forme (20). Pour réduire l'encombrement, le déplacement circulaire du bras (64) et du grappin (70) par rapport à l'axe vertical est engendré par une rotation de la plate-forme (20) autour de cet axe vertical.

IPC 1-7

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

IPC 8 full level

**C21C 5/44 (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)**

Citation (search report)

- [A] FR 2070868 A1 19710917 - KONINKL NEDERLAND CH [NL]
- [A] DE 3413806 C1 19850131 - MANNESMANN AG
- [A] FR 2550984 A1 19850301 - INST RECH CONST NAVALE [FR]
- [A] GB 1392960 A 19750507 - COMBUSTION ENG
- [A] DE 3123582 C1 19821104 - MANNESMANN AG
- [A] FR 2314331 A1 19770107 - VOEST AG [AT]

Cited by

FR2638774A1; BE1003577A3

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