

Title (en)

METHOD FOR ASSEMBLING REINFORCEMENTS FOR CONCRETE ELEMENTS, AND APPARATUS THEREFOR

Title (de)

VERFAHREN ZUR MONTAGE VON BETONBEWEHRUNGEN UND ANLAGE FUER DIE DURCHFUEHRUNG DIESES VERFAHRENS

Title (fr)

PROCEDE D'ASSEMBLAGE D'ARMATURES POUR PRODUITS EN BETON ET INSTALLATION ADAPTEE A SA MISE EN UVRE

Publication

EP 0813457 A1 19971229 (FR)

Application

EP 96905890 A 19960229

Priority

- FR 9600318 W 19960229
- FR 9502500 A 19950303

Abstract (en)

[origin: US6029880A] PCT No. PCT/FR96/00318 Sec. 371 Date Aug. 29, 1997 Sec. 102(e) Date Aug. 29, 1997 PCT Filed Feb. 29, 1996 PCT Pub. No. WO96/27462 PCT Pub. Date Sep. 12, 1996A method for preparing and assembling a planar reinforcement for a concrete element according to a pre-determined design plan, wherein a full-sized plan including the position and type of each element in the reinforcement to be achieved is mapped onto a working surface (30) having two reference directions, a suitable reinforcement element is positioned in each of a plurality of crossing points. The method is characterised in that one or both of the mapping and assembling operations are performed by a tool attached to the carriage of a robot (10), said carriage (10) having at least two degrees of freedom parallel to the reference directions. The method further comprises storing all the design plan data in a storage area of the robot, and using the robot to move the carriage (10) automatically in accordance with said data.

IPC 1-7

B21F 27/20

IPC 8 full level

B21F 27/20 (2006.01)

CPC (source: EP US)

B21F 27/20 (2013.01 - EP US)

Citation (search report)

See references of WO 9627462A1

Cited by

AT524506A1; AT17865U1

Designated contracting state (EPC)

AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

US 6029880 A 20000229; AT E183952 T1 19990915; AU 4947096 A 19960923; CA 2212555 A1 19960912; DE 69604055 D1 19991007; DE 69604055 T2 20000309; DK 0813457 T3 20000327; EP 0813457 A1 19971229; EP 0813457 B1 19990901; ES 2138325 T3 20000101; FR 2731247 A1 19960906; FR 2731247 B1 19970425; GR 3031949 T3 20000331; WO 9627462 A1 19960912

DOCDB simple family (application)

US 89481497 A 19970829; AT 96905890 T 19960229; AU 4947096 A 19960229; CA 2212555 A 19960229; DE 69604055 T 19960229; DK 96905890 T 19960229; EP 96905890 A 19960229; ES 96905890 T 19960229; FR 9502500 A 19950303; FR 9600318 W 19960229; GR 990403042 T 19991125