

Title (en)
Method and apparatus for forming metal frames for reinforced concrete

Title (de)
Verfahren und Vorrichtung zur Herstellung von Bewehrungskäfigen

Title (fr)
Méthode et dispositif de fabrication des cages d'armature

Publication
EP 1378302 A2 20040107 (EN)

Application
EP 03014545 A 20030704

Priority
IT BO20020438 A 20020705

Abstract (en)
A method for forming metal frames for reinforced concrete comprises picking in succession individual stirrups (12) having a closed or open profile at a front input region (E), and transferring each individual stirrup (12) from the input region (E) by way of grip means (51) that can move along a longitudinal direction. The picked stirrup (12) is transferred to welding means (80) associated with traction means (74) that can move along the longitudinal direction. At least one longitudinal auxiliary rod (11) is fixed externally to each bracket (12) and is retained by the welding means (80). At the same time, the welding means (80) are moved alternately into a forward position, by the actuation of the traction means (74), in order to produce the stepwise traction of the auxiliary rod (11) and of the stirrups (12) during coupling thereto by the welding means (80), so as to form an intermediate lattice (10) for the final production of a frame. The invention also relates to an apparatus for forming metal frames. <IMAGE>

IPC 1-7
B21F 27/12

IPC 8 full level
B21F 27/00 (2006.01); **B21F 27/12** (2006.01)

CPC (source: EP)
B21F 27/00 (2013.01); **B21F 27/125** (2013.01)

Cited by
EP1655088A1; CN109676301A; CN113828975A; EP1714716A1; EP1911909A1; EP1864727A1; ES2264640A1; EP1570929A1; GR1009295B; CN108580758A; CN113828712A; EP2087952A1; CN117753895A; US7442247B2; WO2006136629A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)
EP 1378302 A2 20040107; **EP 1378302 A3 20040915**; **EP 1378302 B1 20060607**; AT E328685 T1 20060615; DE 60305800 D1 20060720; IT BO20020438 A0 20020705; IT BO20020438 A1 20040105

DOCDB simple family (application)
EP 03014545 A 20030704; AT 03014545 T 20030704; DE 60305800 T 20030704; IT BO20020438 A 20020705