

Title (en)

AUTOMATIC BENDING UNIT OF METAL WIRE ELEMENTS OF ELECTRO-WELDED MESHES AND RELATED BENDING PROCESS

Title (de)

AUTOMATISCHE BIEGEEINHEIT FÜR METALLDRAHTELEMENTE VON ELEKTROGESCHWEISSTEN GITTERN UND ZUGEHÖRIGES BIEGEVERFAHREN

Title (fr)

UNITÉ DE PLIAGE AUTOMATIQUE D'ÉLÉMENTS DE FIL MÉTALLIQUE DE TREILLIS ÉLECTRO-SOUDÉES ET PROCÉDÉ DE PLIAGE ASSOCIÉS

Publication

**EP 3715007 A1 20200930 (EN)**

Application

**EP 20165350 A 20200324**

Priority

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Abstract (en)

The present invention relates to an automatic bending unit (1) for bending end portions of metal wire elements (F) of an electro-welded mesh (R) lying on a work surface (P), comprising a counteracting member (20) comprising a counteracting surface (22) adapted to lock a wire element (F) and define the bend starting point, bending means (30) comprising at least one bending head (31A, 32A) arranged and configured to bend said wire element (F) around said counteracting surface (22), and abutment means (40). The counteracting member (20) and said bending means (30) are adapted to be moved in a coordinated manner between a non-operative position, wherein said counteracting surface (22) and said bending head (31A, 32A) are arranged in a first side with respect to said work surface (P) and do not interfere with the extension of said wire element (F), and an operative position, wherein said counteract surface (22) and said bending head (31A, 32A) are arranged in a second side with respect to said work surface (P) and interfere with the extension of said wire element (F) to obtain its bending with a plastic deformation. In particular, said abutment means (40) are also movable with respect to the said work surface (P) between a non-operative position and an operative position independently with respect to the said counteracting member (20) and said bending means (30). The present invention also relates to a process for the automatic bending of metal wire elements (F) of electro-welded meshes (R).

IPC 8 full level

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Citation (applicant)

EP 0875308 A2 19981104 - BERNARDINIS CLAUDIO [IT], et al

Citation (search report)

- [X] WO 2014015349 A1 20140130 - EVG ENTWICKLUNGS U VERWETUNGS GES M B H [AT], et al
- [X] US 4515004 A 19850507 - JAENSON HOWARD W [US]
- [X] EP 1925377 A1 20080528 - AWM SPA [IT]
- [AD] EP 0875308 A2 19981104 - BERNARDINIS CLAUDIO [IT], et al
- [A] JP 2009142863 A 20090702 - TOYO KENSETSU KOKI KK

Cited by

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