

Title (en)
APPARATUS FOR PRODUCING A REINFORCEMENT CONSTRUCTION WELDED TOGETHER FROM AT LEAST TWO WIRES

Title (de)
VORRICHTUNG ZUR HERSTELLUNG EINER AUS WENIGSTENS ZWEI DRÄHTEN ZUSAMMENGESCHWEISSTEN BEWEHRUNGSKONSTRUKTION

Title (fr)
ARRANGEMENT DE FABRICATION D'UNE CONSTRUCTION D'ARMATURE ASSEMBLÉE PAR SOUDAGE À PARTIR D'AU MOINS DEUX FILS

Publication
EP 3930951 A1 20220105 (DE)

Application
EP 20704016 A 20200207

Priority

- AT 501582019 A 20190227
- EP 2020053166 W 20200207

Abstract (en)
 [origin: WO2020173685A1] The invention relates to an apparatus (1) for producing, for concrete components, a reinforcement construction (5) welded together from at least two wires (2, 3, 4), particularly for producing a lattice girder (5) welded together from at least one bottom chord (2), at least one top chord (3) and at least one diagonal chord (4), the apparatus comprising at least one welding apparatus (6, 7, 8) for welding the at least two wires (2, 3, 4) at an intersection point (30), wherein the apparatus (1) comprises at least one measurement apparatus (9, 10) for measuring at least one welding parameter (11) during the welding of the at least two wires (2, 3, 4) at the intersection point (30), at least one open-loop and/or closed-loop control device (12) and at least one measurement value transfer apparatus (13, 14, 15), wherein the at least one measurement transfer apparatus (13, 14, 15) is designed to transmit the measurement values (16) of the at least one welding parameter (11), determined by the at least one measurement apparatus (9, 10), to the at least one open-loop and/or closed-loop control device (12), and wherein the at least one open-loop and/or closed-loop control device (12) is designed to compare the measurement values (16) of the at least one welding parameter (11) determined by the at least one measurement apparatus (9, 10) during the welding of the at least two wires (2, 3, 4) and/or values (17) of at least one derived parameter (36) calculated therefrom, to at least one reference value (18, 19, 27) for the reinforcement construction (5) to be produced, wherein the at least one open-loop and/or closed-loop control device (12) is designed to classify the welding of the at least two wires (2, 3, 4) at the intersection point (30) as admissible or inadmissible based on the result of the comparison of the measurement values (16) and/or the values (17) calculated therefrom to the at least one reference value (18, 19, 27), wherein the at least one measurement apparatus (9, 10) is designed to measure the at least one welding parameter (11) for a plurality of time values (22) during the welding, and the at least one open-loop and/or closed-loop control device (12) is designed to form a measurement function (23) by associating each of the measurement values (16) of the at least one welding parameter (11) to each of the time values (22) and to compare said measurement function to at least one reference function (24, 25, 26).

IPC 8 full level
B23K 11/00 (2006.01); **B23K 11/25** (2006.01); **B23K 31/12** (2006.01)

CPC (source: AT EP)
B21F 27/10 (2013.01 - AT); **B23K 11/0086** (2013.01 - AT EP); **B23K 11/25** (2013.01 - AT); **B23K 11/253** (2013.01 - EP); **B23K 11/257** (2013.01 - EP); **B23K 11/258** (2013.01 - EP); **B23K 31/125** (2013.01 - EP); **B23K 2101/22** (2018.08 - AT)

Citation (examination)

- DE 2631455 A1 19780119 - ZUEBLIN AG
- EP 0023898 B1 19831005
- GB 1527640 A 19781004 - CENTRE RECH METALLURGIQUE
- See also references of WO 2020173685A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
WO 2020173685 A1 20200903; AT 522422 A1 20201015; AT 522422 B1 20220115; EP 3930951 A1 20220105

DOCDB simple family (application)
EP 2020053166 W 20200207; AT 501582019 A 20190227; EP 20704016 A 20200207