

Title (en)
FEEDING UNIT FOR JOINING ELEMENTS WITH A CONNECTOR COUPLING, AND METHOD FOR CONNECTING/DISCONNECTING PARTS OF A FEEDING UNIT FOR JOINING ELEMENTS

Title (de)
ZUFÜHREINHEIT FÜR FÜGEELEMENTE MIT EINER ANSCHLUSSKUPPLUNG UND VERFAHREN ZUM VERBINDEN/TRENNEN VON TEILEN EINER ZUFÜHREINHEIT FÜR FÜGEELEMENTE

Title (fr)
UNITÉ D'ALIMENTATION POUR ÉLÉMENTS D'ASSEMBLAGE COMPRENANT UN RACCORD D'ACCOUPLEMENT ET PROCÉDÉ POUR LA CONNEXION/SÉPARATION DE PIÈCES D'UNE UNITÉ D'ALIMENTATION POUR ÉLÉMENTS D'ASSEMBLAGE

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Application
EP 19762300 A 20190802

Priority
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Abstract (en)
[origin: WO2020030224A1] Feeding unit (2) for joining elements with a connector coupling (1) which has a connector plug (3) and a connector socket (4, 4') which can be transferred reversibly from a disconnected state (5) into a state (6), in which they are connected to one another, by way of pushing of the connector plug (3) into the connector socket (4, 4'), wherein the connector plug (3) is penetrated by a cylindrical recess (7) which is configured around the cylinder axis Zs, and the connector socket (4, 4') is penetrated by a cylindrical recess (8) which is configured around the cylinder axis ZB, wherein, in the connected state, the axes Zs and ZB are aligned with one another along an alignment axis ZF, and the cylindrical recesses (7, 8) are connected to one another, wherein the connector plug (3) has a plug-in element (9) with a radial widened portion (10), wherein the connector socket (4, 4') has a push-in opening (11) for the plug-in element (9), a locking element (12, 12') and a latching element (13), wherein the locking element (12, 12') is configured in such a way - that, in the disconnected state, it is situated in a locked position, in which the cylindrical recess (8) of the connector socket (4, 4') for joining elements is not continuous, and - that, in the connected state, it is situated in an open position, in which the cylindrical recess (8) for joining elements is continuous, the push-in opening (11) is configured in such a way - that the plug-in element (9) can be pushed from a push-in direction (14) into the connector socket (4, 4'), in which the axes Zs and ZB are not aligned with one another, and - that, after being pushed in, the connector plug (3) and the connector socket (4, 4') can be transferred into the connected state by way of a latching movement, wherein the locking element (12, 12') can be transferred out of the locked position into the open position by way of the latching movement, and wherein the latching element (13) engages behind the radial widened portion (10) by way of the latching movement, in order to prevent the disconnection of the connector plug (3) and the connector socket (4, 4') in the opposite direction along the axis ZF.

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CPC (source: EP US)
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Citation (search report)
See references of WO 2020030224A1

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