

Title (en)
CONNECTION DEVICE

Title (de)
VERBINDUNGSVORRICHTUNG

Title (fr)
DISPOSITIF DE CONNEXION

Publication
EP 3633795 A1 20200408 (EN)

Application
EP 18810189 A 20180522

Priority
• JP 2017105230 A 20170529
• JP 2018019611 W 20180522

Abstract (en)
A connector (1) includes a case (2), a terminal part (3), an elastic member (4), and an operation part (5). The terminal part (3) has conductivity and is fixed to the case (2). The elastic member (4) is mounted on the case (2). The elastic member (4) presses a wire (91) against and clamps the wire to the terminal part (3) by restoring force of the elastic member. The operation part (5) comes in contact with the elastic member (4) and maintains a non-connected state of the elastic member (4) in which the elastic member is bent more than in its connected state in which the elastic member clamps the wire (91). In the connector (1), when the wire (91) is inserted between the terminal part (3) and the elastic member (4) in the non-connected state, a force is transmitted indirectly from the wire (91) to the operation part (5) to move the operation part (5) and to cause the elastic member (4) to transition from the non-connected state to the connected state. This facilitates connecting the wire (91) to the connector (1).

IPC 8 full level
H01R 4/48 (2006.01); **H01R 13/627** (2006.01)

CPC (source: EP US)
H01R 4/4828 (2023.08 - EP US); **H01R 4/4821** (2023.08 - EP US); **H01R 4/4833** (2023.08 - EP US); **H01R 4/4835** (2023.08 - EP US);
H01R 9/2408 (2013.01 - EP)

Cited by
EP4037104A1; DE102021110757B3; US11444395B1; US12034265B2

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)
EP 3633795 A1 20200408; **EP 3633795 A4 20210303**; **EP 3633795 B1 20230215**; CN 110663139 A 20200107; CN 110663139 B 20210122;
JP 6675004 B2 20200401; JP WO2018221312 A1 20190627; WO 2018221312 A1 20181206

DOCDB simple family (application)
EP 18810189 A 20180522; CN 201880034651 A 20180522; JP 2018019611 W 20180522; JP 2018529084 A 20180522