



US 20230231329A1

(19) **United States**(12) **Patent Application Publication**
Dossmann et al.(10) **Pub. No.: US 2023/0231329 A1**(43) **Pub. Date: Jul. 20, 2023**(54) **INSULATION-PIERCING CONNECTOR**(52) **U.S. Cl.**(71) Applicant: **Tyco Electronics - Simel,**
Gevrey-Chambertin (FR)CPC **H01R 4/2408** (2013.01); **H01R 4/44**
(2013.01); **H01R 4/40** (2013.01)(72) Inventors: **Julien Dossmann,** Gevrey-Chambertin
(FR); **Bruno Peltier,**
Gevrey-Chambertin (FR); **Alexandre**
Guichard, Gevrey-Chambertin (FR)

(57)

ABSTRACT(73) Assignee: **Tyco Electronics - Simel,**
Gevrey-Chambertin (FR)(21) Appl. No.: **17/940,381**(22) Filed: **Sep. 8, 2022**(30) **Foreign Application Priority Data**

Sep. 8, 2021 (EP) 21306228.4

Publication Classification(51) **Int. Cl.****H01R 4/2408** (2006.01)**H01R 4/44** (2006.01)**H01R 4/40** (2006.01)

A cable connector assembly includes a pair of sub-assemblies movable in translation relative to each other along a clamping direction and a tightening device tightening the sub-assemblies along the clamping direction. Each of the sub-assemblies is pivotable relative to a pivot axis extending perpendicular to the clamping direction. Each of the sub-assemblies has a main housing and a clamping part at least partially housed within the main housing. The clamping part is movable in translation relative to the main housing along the clamping direction. The tightening device tightens the sub-assemblies along the clamping direction with a first clamping region formed between the sub-assemblies that receives and clamps a first cable. A secondary clamping region is formed in each of the sub-assemblies between the clamping part and the main housing that receives and clamps a secondary cable.

