

Title (en)

SUPPORTING MECHANISM FOR BUSBAR AND SWITCHGEAR

Title (de)

TRAGMECHANISMUS FÜR EINE SAMMELSCHIENE UND SCHALTANLAGE

Title (fr)

MÉCANISME DE SUPPORT DE BARRE OMNIBUS ET APPAREILLAGE DE COMMUTATION

Publication

**EP 3912238 A4 20220824 (EN)**

Application

**EP 19909781 A 20190118**

Priority

CN 2019072355 W 20190118

Abstract (en)

[origin: WO2020147114A1] Embodiments of the present disclosure provide a supporting mechanism for busbars. The supporting mechanism comprises a middle part comprising at least two sets of first slots arranged in pairs on two sides of the middle part, each set of first slots passing through the middle part in a direction perpendicular to an extending direction of the middle part; a first side part and a second side part arranged symmetrically and adjacent to the middle part, the first and second side parts each comprising at least a set of second slots aligned with the respective set of first slots to enable the busbars to extend in the direction to be partially received in sets the first and second slots; and a fixing assembly coupled to the middle part and the first and second side parts, the fixing assembly operable to move the first and second side parts towards the middle part to clamp the busbars. The supporting mechanisms increase heat dissipation area of busbars, improving the heat dissipation. Furthermore, branch busbars may be attached to main busbars with fixing elements passing through the gaps between the busbars arranged on two sides of the middle part, facilitating the assembly of the branch busbars. In addition, no hole in the main busbars for connecting the branch busbars is needed, improving the standardization degree and connection reliability.

IPC 8 full level

**H02G 5/02** (2006.01); **H02B 1/21** (2006.01)

CPC (source: EP)

**H02G 5/025** (2013.01); **H02B 1/21** (2013.01)

Citation (search report)

- [X1] FR 2581233 A1 19861031 - SPIE BATIGNOLLES [FR]
- [X1] LAFER SRL: "Supporti barre", 11 February 2018 (2018-02-11), XP055940694, Retrieved from the Internet <URL:https://fdocumenti.com/document/supporti-barre.html> [retrieved on 20220711]
- [X1] LAFER IBERICA: "Catálogo de productos 06.2017", 30 June 2017 (2017-06-30), XP055940680, Retrieved from the Internet <URL:https://www.laferiberica.com/pdf/lafer/lafer\_catalogo\_prodotti\_es.pdf> [retrieved on 20220711]
- See also references of WO 2020147114A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

**WO 2020147114 A1 20200723**; CN 113169531 A 20210723; CN 113169531 B 20240220; EP 3912238 A1 20211124; EP 3912238 A4 20220824

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