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(54) Title: ALTERNATING CURRENT/DIRECT CURRENT COMMON BUS DUCT, AND BUS DUCT DETECTION METHOD AND DEVICE

(54) 发明名称: 交直流共用母线槽、母线槽检测方法及装置

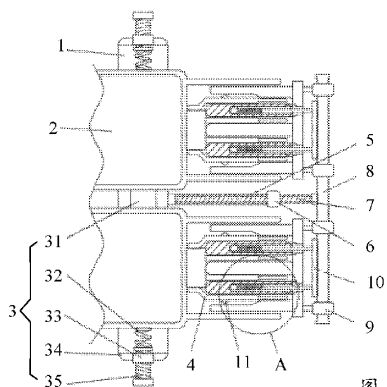


图 1

(57) Abstract: An alternating current/direct current common bus duct, comprising: a bottom plate (1) parallelly provided with at least one pair of detachable duct bodies (2), a copper bar group (4) being connected to the same side of each pair of duct bodies (2), each copper bar group (4) comprising a plurality of copper bars arranged at intervals; and at least one pair of limiting protection structures (9) correspondingly mounted on each copper bar group (4), wherein each limiting protection structure (9) is used for separating from the corresponding copper bar group (4) when the copper bar group (4) is in a use state, and for inserting into a gap between adjacent copper bars in the corresponding copper bar group (4) when the copper bar group (4) is in a non-use state. The alternating current/direct current common bus duct can utilize a separation and assembly structure of the limiting protection structure (9) to implement separate checking and maintenance if the bus duct is connected to both an alternating current bus and a direct current bus, and implement the overall protection of a copper bar group and individual protection of copper bars if the bus duct is individually connected to the alternating current bus or the direct current bus to effectively avoid excessive exposure of the copper bar group in an unnecessary state, thus preventing a bus and a bus duct from being damaged, effectively improving the power transmission efficiency and effect, reducing maintenance costs, and prolonging the service life of a bus duct. The present invention also relates to a bus duct detection

NA, RW, SD, SL, ST, SZ, TZ, UG, ZM, ZW), 欧亚 (AM, AZ, BY, KG, KZ, RU, TJ, TM), 欧洲 (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG)。

本国际公布：

— 包括国际检索报告(条约第21条(3))。

method and device.

(57) 摘要：一种交直流共用母线槽，包括：底板(1)，并列的设有至少一对可拆装的槽本体(2)，每对槽本体(2)的同侧连接有一组铜排组(4)，每组铜排组(4)包括若干条间隔排列的铜排；至少一对限位保护结构(9)，对应安装于各组铜排组(4)；其中，限位保护结构(9)用于在相应的铜排组(4)处于使用状态下能与铜排组(4)分离，并用于在相应的铜排组(4)处于非使用状态下能插装于铜排组(4)中相邻铜排的间隙内。该交直流共用母线槽能够利用限位保护结构(9)的分离和组装结构，从而在该母线槽同时接通交流母线和直流母线的情况下能分开检修，并在单独接通交流母线或直流母线情况下，实现铜排组的整体保护以及对各个铜排的单独保护，有效避免铜排组在非必要状态下的过度暴露，从而避免母线及母线槽受到损坏，有效提高电力传输效率和效果，并且能降低维保成本，延长母线槽的使用寿命。还涉及一种母线槽检测方法及装置。