



福建邮政通信职业学院
Fujian Chuanzheng Communications College

福建森源电力设备有限公司

Fujian Senyuan Electric Power Equipment Co., Ltd

Local/remote control of grounding switch opening and closing system for high-voltage switchgear

Fujian Chuanzheng Communications College,
Fujian Senyuan Power Equipment Co., Ltd
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1. Project background

To solve the problem of manual operation of grounding switches in high-voltage switchgear, which is time-consuming, labor-intensive, and has low reliability, and to avoid the occurrence of electric shock accidents during on-site operation, an intelligent control grounding knife switch system has been invented, which is applied to the complete set of high-voltage switch equipment in power transmission and transmission systems.

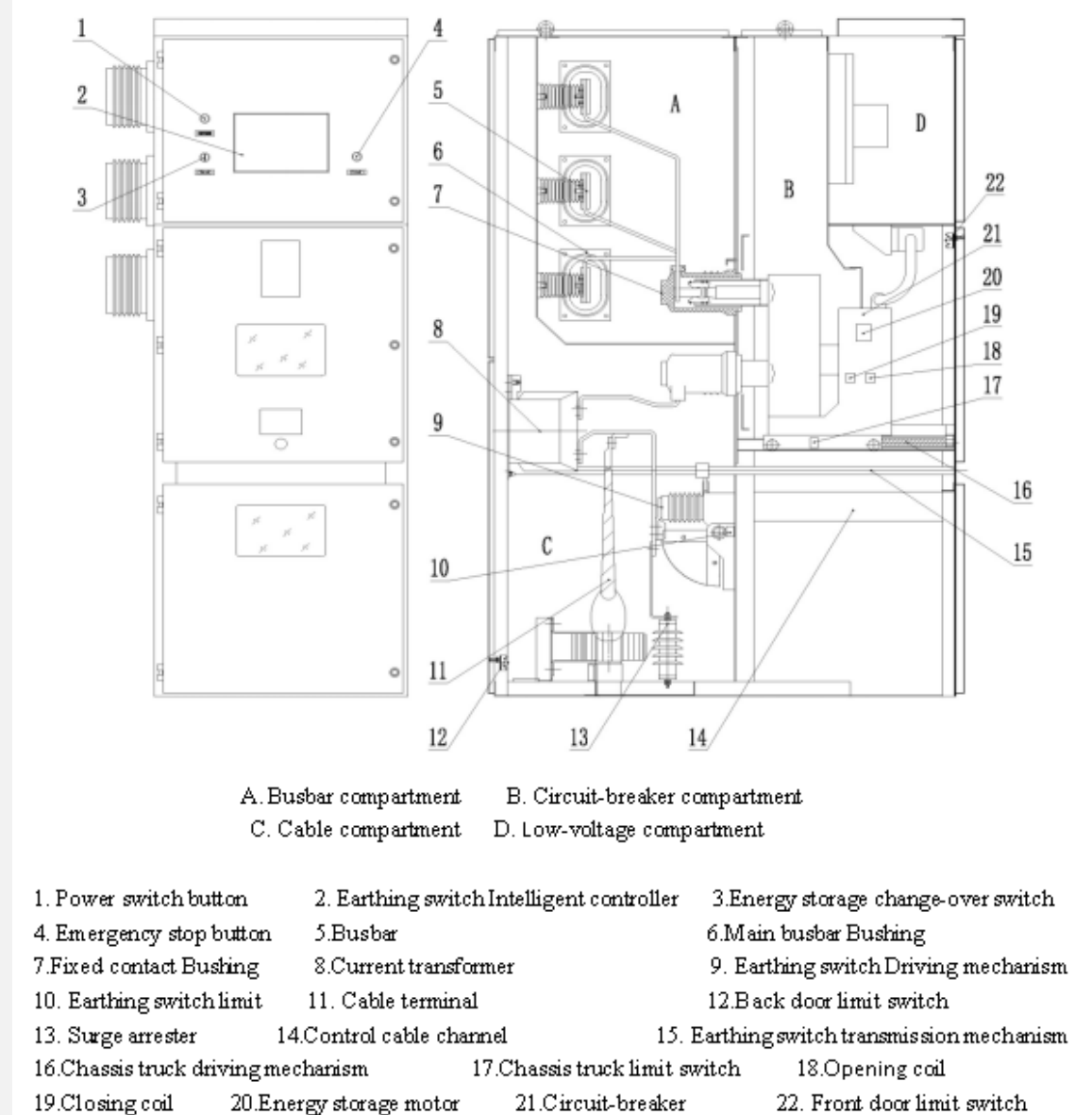


2. Introduction of invention

The present invention adopts an intelligent controller for the opening and closing system of the grounding knife switch, which is driven by a motor. The intelligent controller automatically determines the start and stop of the control switch and automatically returns faults; The intelligent controller simultaneously controls the input and output of the circuit breaker chassis handcart, collects information on the working conditions of the switchgear, and analyzes and processes it in real-time.



3. Product structure





Product physical image



Earthing knife switch opening and closing device



4. Patent certificate

证书号第14030402号



实用新型专利证书

发明创造名称：就地/远程控制液压开关的遥控开关分闸系统

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局长 申长雨

2021年10月08日

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实用新型专利证书

证书号第14030402号

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申请时对本专利权的申请人、发明人约定如下：
申请人：福建轨道交通职业技术学院; 福建森源电力设备有限公司

发明人：庄志忠; 傅洋白; 叶德福; 傅秋霞; 廖晓生; 张佩东

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5. advantage of product

(1) The present invention enhances the intelligent control level of high-voltage switchgear by adding the function of intelligent control switch opening and closing operations to traditional high-voltage switchgear.

(2) Realize remote intelligent control, avoid the occurrence of electric shock accidents during manual on-site operations, and ensure power supply safety.

(3) The present invention promotes the development of intelligence and information technology in power transmission and transmission systems, is conducive to the industrialization of high-tech, increases the technological added value of traditional products, and improves competitiveness.

6. Development Prospects

With the continuous upgrading of power grid intelligence, there is an urgent need for electric operation and automated remote control of power supply and distribution equipment. The present invention has a simple structure, convenient maintenance, strong adaptability, high degree of automation, and high working reliability, providing a preferred equipment for intelligent power grids, effectively improving power supply safety and reliability, and has great prospects for promotion.





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Thank you to all the judges!
Welcome to China for guidance!

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