

ABSTRACT**ELECTRONIC-MECHANICAL DUAL CONTROL LOCK**

An electronic-mechanical dual control lock includes an electronic control mechanism, a mechanical control mechanism, a half gear (2), a cam (3), a rotary plug (1), and a rotary tongue (12). The electronic control mechanism includes an electronic actuating part (8) and an engaging groove gear (4). The electronic actuating part (8) is meshed with the engaging groove gear (4). A bottom surface of the engaging groove gear (4) is fit with a bottom surface of the cam (3). The mechanical control mechanism includes a mechanical actuating part and the half gear (2). The mechanical actuating part is meshed with the half gear (2). The cam (3) is driven by the engaging groove gear (4) and the half gear (2) separately and independently. The rotary plug (1) includes a rotary shaft and a plug body. The rotary shaft is arranged at one end of the plug body and is engaged in the cam (3). The plug body is a cylinder provided at a side thereof with a groove. The groove of the plug body of the rotary plug (1) is rotatable into or out of the moving trajectory of the rotary tongue (12). The electronic-mechanical dual control lock switches between a mechanical structure and an electronic structure therein, and is structurally simple, convenient, and practical.

[Fig. 4]