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(54) **BOBBIN THAT FACILITATES AUTOMATIC WINDING, COIL AND LATCHING RELAY**

(57) A bobbin that facilitates automatic winding includes a first flange part (1), a second flange part (2), a third flange part (3), a first winding part (4) and a second winding part (5), the first winding part (4) is provided between the first flange part (1) and the second flange part (2), the second winding part (5) is provided between the second flange part (2) and the third flange part (3); the first flange part (1) is provided with a plurality of terminal holes, the plurality of terminal holes includes a first terminal hole (11) for inserting a start terminal (8) and a second terminal hole (13) for inserting an end terminal (9); the first flange part (1) is provided with a wire hanging portion, and a bottom end of the wire hanging portion is lower than a top end of the first flange part (1), and the second flange part (2) is provided with a first wire guide portion for guiding an enameled wire (7) from the second winding part (5) to the wire hanging portion. In the present disclosure, a manual winding of enameled wire is avoided, and the wire hanging portion is used to hang the wire to reduce the height of the end wire part of the enameled wire (7) located between the first flange part (1) and the second flange part (2), at the same time, an effective isolation between the enameled wire layers of the second winding part (5) and the first winding part (4) can be ensured, and the risk of interlayer breakdown can be avoided, thereby avoiding the use of a wire crimping mechanism to crimp the wire and ensuring safety at the same

time.

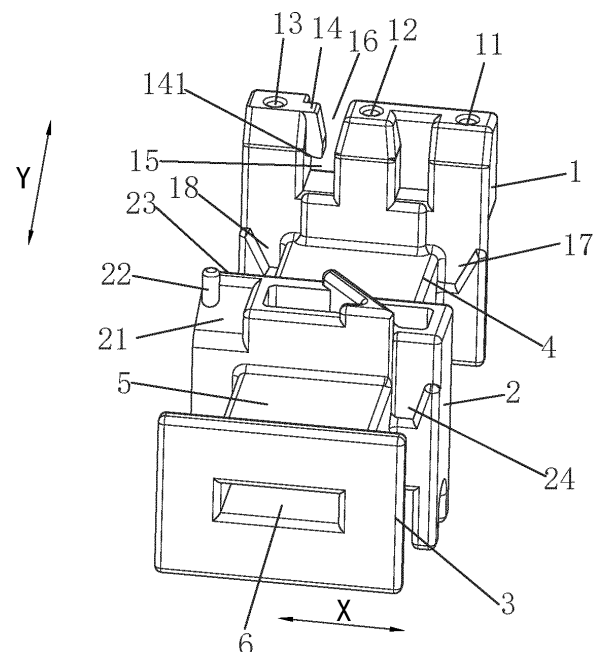


FIG.1



EUROPEAN SEARCH REPORT

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The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 12 January 2022	Examiner Van den Berg, G
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

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