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 (54) Title: Modular functional electrical device with a mechanical and electrical connection
 (56) Cited documents: ---
 (57) Abstract:

The present invention relates to a functional electrical device (1; 5) comprising an energy storage module (3) including a rechargeable battery for storing electrical energy and a male connection portion (10), and a function-providing module (2; 6) including circuitry for providing an electrical function and a female connection portion (16) for releasable mechanical and electrical connection to the male connection portion. The male connection portion (10) and the female connection portion (16) are configured in such a way that in a first rotational position, axial separation of the energy storage module (3) from the function-providing module (16) is prevented and flow of current from the battery to the circuitry is allowed, and in a second rotational position, axial separation of the energy storage module (3) from the function-providing module (2; 6) is prevented and flow of current from the battery to the circuitry is prevented.

