

Title (en)  
FREE-WHEELING CIRCUIT

Title (de)  
FREILAUFKREIS

Title (fr)  
CIRCUIT ROUE LIBRE

Publication  
**EP 2483984 B1 20141001 (DE)**

Application  
**EP 10743100 A 20100810**

Priority  
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Abstract (en)  
[origin: WO2011038969A2] The invention relates to a free-wheeling circuit for the rapid reduction of a shutdown overvoltage of an inductive load (1) when the latter is shut down. The free-wheeling circuit comprises a switching threshold component (11) by which the free-wheeling circuit becomes active more rapidly compared to a free-wheeling circuit without said switching threshold component (11), thereby ensuring a more rapid reduction of the shutdown overvoltage. If a control voltage provided by a control voltage source (2) falls below a threshold voltage set by the switching threshold component (11), a capacitive energy accumulator is immediately discharged and not only when the control voltage is reduced to near zero, and said energy accumulator then activates the free-wheeling circuit for reducing the shutdown overvoltage, when in the nearly discharged state.

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CPC (source: EP US)  
**H01F 7/1811** (2013.01 - EP US); **H01F 7/1883** (2013.01 - EP US)

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