

Title (en)
UNREGULATED ALTERNATING CURRENT DEMAGNETISER

Title (de)
UNGESTEUERTER WECHSELSTROMENTMAGNETISIERER

Title (fr)
DISPOSITIF DE DEMAGNETISATION NON CONTROLE A COURANT ALTERNATIF

Publication
EP 2963660 B1 20200408 (DE)

Application
EP 15172263 A 20150616

Priority
CH 9572014 A 20140624

Abstract (en)
[origin: US2015371749A1] For an uncontrolled alternating-current demagnetiser (1), comprising an alternating-current circuit (10) and an AC voltage source (100), wherein the alternating-current circuit (10) allows the AC voltage loading, by means of the actuation of a switch (S), of a parallel resonant circuit (P) comprising a demagnetising coil (L) and a parallel capacitor (C1) connected in parallel to the demagnetising coil (L), the option should be created to minimise the error proneness during demagnetisation, even of users, who do not have any knowledge of the processes during the demagnetisation. This is achieved in that the alternating current in the inductance L freely decays when the semiconductor element D is switched off. To limit the inrush current owing to the parallel capacitor C1, at least one electronic component (D) is arranged in series to the AC voltage source (100) and can be operated by means of switch (S). The alternating-current circuit (10) is in this case switched on exactly at the zero passage of the AC voltage source (100). A series capacitor (C2) is expediently connected in series with the demagnetising coil (L) in the alternating-current circuit (10).

IPC 8 full level
H01F 13/00 (2006.01)

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H01F 13/006 (2013.01 - EP US)

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