

Title (en)

A treatment for lengthening the life of electromagnetic relays

Title (de)

Verfahren zur Verlängerung der Lebensdauer eines elektromagnetischen Relais

Title (fr)

Procédé pour allonger la durée de vie d'un relais électromagnétique

Publication

EP 1109188 A2 20010620 (EN)

Application

EP 00311157 A 20001212

Priority

ES 9902729 A 19991214

Abstract (en)

A treatment for lengthening the life of electromagnetic relays is characterized by the determining magnetic elements of the contacts in the relay being surface-hardened by means of the incorporation of a fine TiN (titanium nitride) base covering coat.

IPC 1-7

H01H 50/16

IPC 8 full level

H01H 50/16 (2006.01)

CPC (source: EP)

H01H 50/163 (2013.01)

Cited by

US7797980B2

Designated contracting state (EPC)

DE ES FR GB IT

DOCDB simple family (publication)

EP 1109188 A2 20010620; EP 1109188 A3 20030416; ES 2167187 A1 20020501; ES 2167187 B2 20030516

DOCDB simple family (application)

EP 00311157 A 20001212; ES 9902729 A 19991214