

Title (en)
IMPROVEMENTS RELATING TO THERMALLY-RESPONSIVE CONTROLS

Title (de)
TEMPERATURABHÄNGIGE STEUERUNG

Title (fr)
AMELIORATIONS CONCERNANT DES COMMANDES THERMOSENSIBLES

Publication
EP 1173863 B1 20041110 (EN)

Application
EP 00920934 A 20000425

Priority
• GB 0001581 W 20000425
• GB 9909563 A 19990426

Abstract (en)
[origin: WO0065625A1] A bimetallic actuator has a dished, snap-acting, bimetal held in a spring metal carrier with its convex surface uppermost in the cold condition of the bimetal, and the carrier is adapted to be biased against a heated surface with a force sufficient to flatten the bimetal. The carrier is arranged to deform under the application of this force and, in doing so, to apply stresses to the bimetal such as to raise its operating temperature above that at which it would operate in stand alone condition. The carrier furthermore spaces the bimetal periphery from the heated surface, even when the bimetal is in its cold condition, and is substantially flattened against the heated surface, so that additional movement is obtained from the bimetal when it snaps to its opposite curvature. A thermally-responsive control incorporating such an actuator is better able to operate with modern thick film heating elements.

IPC 1-7
H01H 37/54

IPC 8 full level
H01H 37/54 (2006.01)

CPC (source: EP)
H01H 37/54 (2013.01); **H01H 2037/5454** (2013.01)

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
WO 0065625 A1 20001102; AT E282245 T1 20041115; AU 4134400 A 20001110; CN 1258792 C 20060607; CN 1358320 A 20020710; DE 60015746 D1 20041216; DE 60015746 T2 20051110; EP 1173863 A1 20020123; EP 1173863 B1 20041110; GB 2349508 A 20001101; GB 2349508 B 20030416; GB 9909563 D0 19990623

DOCDB simple family (application)
GB 0001581 W 20000425; AT 00920934 T 20000425; AU 4134400 A 20000425; CN 00809498 A 20000425; DE 60015746 T 20000425; EP 00920934 A 20000425; GB 9909563 A 19990426