

Title (en)  
Transformer having a temperature detecting capability and an electric appliance utilizing the same

Title (de)  
Transformator mit Temperaturdetektor und elektrisches Gerät welches ihn verwendet

Title (fr)  
Transformateur avec détection de température ainsi qu'appareil électrique utilisant celui-ci

Publication  
**EP 1372165 A1 20031217 (EN)**

Application  
**EP 02254013 A 20020610**

Priority  
EP 02254013 A 20020610

Abstract (en)  
To provide a compact transformer utilizing a transformer core of a reduced size and incapable of being heated to a temperature equal to or higher than a prescribed temperature limit, the transformer includes a transformer core (18), primary and secondary windings (13, 14) wound around the transformer core (18) in axially spaced relation to each other, and a temperature responsive switch (30) electrically connected in series with the primary winding (13). The switch (30) is adapted to be turned off in response to increase of the temperature over a predetermined value and is positioned between the transformer core (18) and one of the primary and secondary windings (13, 14). <IMAGE>

IPC 1-7  
**H01F 27/40**

IPC 8 full level  
**H01F 27/08** (2006.01); **H01F 27/40** (2006.01)

CPC (source: EP)  
**H01F 27/085** (2013.01); **H01F 27/402** (2013.01); **H05B 6/662** (2013.01); **H05B 6/666** (2013.01); **H01F 2027/406** (2013.01)

Citation (search report)  
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• [Y] GB 2352563 A 20010131 - SAMSUNG ELECTRONICS CO LTD [KR]  
• [A] EP 1047086 A1 20001025 - KUREHA CHEMICAL IND CO LTD [JP]  
• [A] US 3675081 A 19720704 - EARING MASON H

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CN104373970A; CN113016046A; CN111430136A; EP2568768A3

Designated contracting state (EPC)  
DE FR GB

DOCDB simple family (publication)  
**EP 1372165 A1 20031217**; **EP 1372165 B1 20050810**; DE 60205468 D1 20050915; DE 60205468 T2 20060209

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