

Title (en)

Hand-held device for thermal treatment of an area affected by an insect sting or bite

Title (de)

Handgerät zum thermischen Behandeln einer durch einen Insektenstich oder -biss betroffenen Stelle

Title (fr)

Appareil manuel de traitement thermique d'un emplacement affecté par une piqure ou une morsure d'insecte

Publication

EP 1971301 A1 20080924 (DE)

Application

EP 07702615 A 20070108

Priority

- EP 2007000092 W 20070108
- DE 102006001889 A 20060113
- DE 102006019552 A 20060427

Abstract (en)

[origin: WO2007082648A1] Different designs of hand-held devices for therapeutic skin treatment by application of heat are known. Inexpensive hand-held devices use heat radiation. In practice, however, there is no inexpensive hand-held device available that can be placed on the skin to be treated and that operates according to the principle of heat conduction and allows the skin to be treated within a defined temperature range without the use of a temperature sensor and control elements. To provide the user with an easy-to-use hand-held device that is inexpensive to produce and is based on the principle of heat conduction, the hand-held device according to the invention for thermal treatment of an area affected by an insect sting or bite comprises: a heat-conducting body (K) which is mounted in the housing (G) of the hand-held device and can be brought into contact with the skin (H) of the user, a temperature-dependent resistor which is arranged on or in the heat-conducting body (K) and is thermally coupled to the latter and has a positive characteristic curve (PTC), a keypad element (T) that can be manually actuated by the user, and a voltage source (B) arranged in the housing (G) of the hand-held device, such that, depending on the duration of actuation of the keypad element (T) and depending on the heat transfer resistances (R_{TH1}, R_{TH2}, R_{TH3}) between temperature-dependent resistor (PTC), heat-conducting body (K) and skin (H), the heat-conducting body (K) on the skin contact surface (HK) can be heated by the heat of the temperature-dependent resistor (PTC) to a temperature in the temperature range between 50 °C and 65 °C. The invention applies to the field of medical equipment.

IPC 8 full level

A61F 7/00 (2006.01)

CPC (source: EP US)

A61F 7/007 (2013.01 - EP US); **A61F 2007/0074** (2013.01 - EP US); **A61F 2007/0284** (2013.01 - EP US)

Citation (search report)

See references of WO 2007082648A1

Citation (examination)

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DE102016211119A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2007082648 A1 20070726; EP 1971301 A1 20080924; US 2010179623 A1 20100715

DOCDB simple family (application)

EP 2007000092 W 20070108; EP 07702615 A 20070108; US 16072307 A 20070108