

Title (en)

IRRADIATION-COOLING COMBINATION FOR APPLICATION IN PHOTODYNAMIC THERAPY

Title (de)

BESTRAHLUNGS-KÜHLKOMBINATION FÜR DIE ANWENDUNG IN DER PHOTODYNAMISCHEN THERAPIE

Title (fr)

COMBINAISON D'IRRADIATION ET DE REFROIDISSEMENT DESTINÉE À ÊTRE UTILISÉE EN THÉRAPIE PHOTODYNAMIQUE

Publication

**EP 2408522 A1 20120125 (DE)**

Application

**EP 10709000 A 20100317**

Priority

- EP 2010053427 W 20100317
- EP 09155532 A 20090318
- EP 10709000 A 20100317

Abstract (en)

[origin: EP2229979A1] The combination has a fixing unit defining positioning of the combination opposite to a treatment surface (160) of a patient. A cooling element (130) is attached between an irradiation element (120) i.e. LED module, and the treatment surface, and includes an optical pass-through surface that is cooled. The cooling element includes a deforming part applied to the treatment surface resulting in homogenization of radiation within the cooling element using a modified diverging effect on beam cross section of radiation. An independent claim is also included for a method for generating a homogenized radiation field in a cooled optimal passing surface with an irradiation-cooling combination.

IPC 8 full level

**A61N 5/06** (2006.01)

CPC (source: EP US)

**A61N 5/062** (2013.01 - EP US); **A61B 2018/00023** (2013.01 - EP US); **A61N 2005/007** (2013.01 - EP US)

Citation (search report)

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