Title (en)
LAMP FOR AN EXPLOSION-PROOF LIGHTING UNIT

Title (de)
LAMPE FÜR EXPLOSIONSGESCHÜTZTE LEUCHTE

Title (fr)
LAMPE POUR DISPOSITIF D'ECLAIRAGE ANTIDEFLAGRANT

Publication
EP 1325510 B1 20180404 (DE)

Application
EP 01965150 A 20010730

Priority
- DE 20017372 U 20001010
- EP 0108797 W 20010730

Abstract (en)
[origin: WO0231860A1] A lamp (1) for an explosion-proof lighting unit comprises at least one inner lamp (3), which is encapsulated inside a jacket (2) in an explosion-proof manner, and comprises a lamp socket (4) that is electrically connected thereto. An insulating space (5), which is formed between the jacket (2) and the inner lamp (3), is at least partially evacuated of air. The aim of the invention is to further improve a lamp (1) of this type such that the temperature of the lighting unit and, particularly, of the inner lamp (3) is reliably and rapidly reduced in the instance that the vacuum inside the insulating space (5) ceases to exist whereby preventing an explosion. To this end, at least one pressure and/or temperature sensor (6, 7) is assigned to the insulating space (5). Said pressure and/or temperature sensor is connected to an interrupter circuit (8) provided for interrupting the power supply to the lamp (1) when a pressure or a temperature greater than a respectively predetermined maximum value is detected.

IPC 8 full level
H01J 61/56 (2006.01); **H01J 61/34** (2006.01); **H01J 61/50** (2006.01)

CPC (source: EP)
H01J 61/34 (2013.01); **H01J 61/50** (2013.01); **H01J 61/56** (2013.01)

Citation (examination)
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Cited by
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DE FR GB

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