

Title (en)

HOLLOW CATHODE LAMP ELAPSED TIME RECORDING SYSTEM

Title (de)

AUFZEICHNUNGSSYSTEM FÜR VERSTRICHENE ZEIT FÜR EINE HOHLKATHODENLAMPE

Title (fr)

SYSTÈME D'ENREGISTREMENT DE TEMPS ÉCOULÉ DE LAMPE À CATHODE CREUSE

Publication

**EP 2659460 A4 20150304 (EN)**

Application

**EP 10861281 A 20101230**

Priority

US 2010062583 W 20101230

Abstract (en)

[origin: WO2012091724A1] A hollow cathode lamp is described with an end cap, an anode, and a cathode. A data storage device is part of the end cap and communicates data to and from a computing device. The data communicated with the computing device may include identification information and usage information corresponding to the hollow cathode lamp. Additionally, a method is described that includes activating a power supply to a hollow cathode lamp and communicating data with a memory device located in the hollow cathode lamp. The data communicated with the memory device includes usage information about an amount of time the hollow cathode lamp has been in use.

IPC 8 full level

**G07C 3/04** (2006.01); **G04F 10/04** (2006.01); **H01J 17/06** (2006.01); **H01J 61/09** (2006.01); **H05B 41/00** (2006.01)

CPC (source: EP)

**G07C 3/02** (2013.01); **H01J 61/09** (2013.01); **H01J 61/64** (2013.01); **H05B 47/18** (2020.01)

Citation (search report)

- [I] WO 2010060830 A1 20100603 - OSRAM GMBH [DE], et al
- [I] WO 0145471 A1 20010621 - EFOS INC [CA], et al
- [I] DE 10008778 A1 20010913 - DEURAG AG GLARUS [CH]
- [A] JP 2005310484 A 20051104 - MATSUSHITA ELECTRIC IND CO LTD
- [A] US 2003127998 A1 20030710 - NOTARIANNI JOSEPH C [US], et al
- See references of WO 2012091724A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

**WO 2012091724 A1 20120705**; AU 2010366636 A1 20130502; AU 2010366636 B2 20150514; CA 2822433 A1 20120705; CN 103270538 A 20130828; EP 2659460 A1 20131106; EP 2659460 A4 20150304; JP 2014502760 A 20140203; SG 191016 A1 20130731

DOCDB simple family (application)

**US 2010062583 W 20101230**; AU 2010366636 A 20101230; CA 2822433 A 20101230; CN 201080070954 A 20101230; EP 10861281 A 20101230; JP 2013547445 A 20101230; SG 2013043468 A 20101230