

Title (en)  
OPTICAL MARK READER

Title (de)  
LESER OPTISCHER MARKIERUNGEN

Title (fr)  
LECTEUR DE MARQUES OPTIQUES

Publication  
**EP 3140776 A4 20180502 (EN)**

Application  
**EP 15754596 A 20150224**

Priority  

- US 201414194455 A 20140228
- US 201462033989 P 20140806
- US 2015017372 W 20150224

Abstract (en)  
[origin: WO2015130702A1] Each data point within a two-dimensional code can be represented by a distribution of spots (32). Each spot (32) can be made small enough to be invisible to the human eye so that the two-dimensional code can be invisible on or within transparent or nontransparent materials. The spots (32) can be spaced at a large distance (s) to increase the signal-to-noise ratio for an optical code reader. A code reader can be adapted to read the spots (32) and determine the data points.

IPC 8 full level  
**G06K 7/10** (2006.01); **G06K 1/12** (2006.01); **G06K 19/06** (2006.01)

CPC (source: EP)  
**G06K 1/126** (2013.01); **G06K 7/10722** (2013.01); **G06K 19/06178** (2013.01); **G06K 2007/10485** (2013.01)

Citation (search report)  

- [IA] DE 10141664 A1 20030306 - LASER & MED TECH GMBH [DE]
- [A] WO 2008055791 A1 20080515 - MUEHLBAUER AG [DE], et al
- See references of WO 2015130702A1

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 2015130702 A1 20150903**; EP 3140776 A1 20170315; EP 3140776 A4 20180502; TW 201539328 A 20151016; TW I651654 B 20190221

DOCDB simple family (application)  
**US 2015017372 W 20150224**; EP 15754596 A 20150224; TW 104106234 A 20150226