



(11) **EP 2 636 111 B8**

(12) **CORRECTED EUROPEAN PATENT SPECIFICATION**

(15) Correction information:  
**Corrected version no 1 (W1 B1)**  
**Corrections, see**  
**Bibliography INID code(s) 73**

(51) Int Cl.:  
**H01S 5/026** <sup>(2006.01)</sup> **H01S 5/42** <sup>(2006.01)</sup>  
**H01S 5/40** <sup>(2006.01)</sup> **G02B 19/00** <sup>(2006.01)</sup>  
**H01S 3/08** <sup>(2006.01)</sup> **H01S 5/14** <sup>(2006.01)</sup>  
**H01S 5/183** <sup>(2006.01)</sup>

(48) Corrigendum issued on:  
**19.08.2020 Bulletin 2020/34**

(86) International application number:  
**PCT/IB2011/054850**

(45) Date of publication and mention  
of the grant of the patent:  
**06.05.2020 Bulletin 2020/19**

(87) International publication number:  
**WO 2012/059864 (10.05.2012 Gazette 2012/19)**

(21) Application number: **11797357.8**

(22) Date of filing: **01.11.2011**

---

(54) **OPTICAL ELEMENT FOR VERTICAL EXTERNAL-CAVITY SURFACE-EMITTING LASER**  
OPTISCHES ELEMENT FÜR VERTIKALRESONATOR-OBERFLÄCHENEMISSIONSLASER  
ÉLÉMENT OPTIQUE POUR LASER À ÉMISSION DE SURFACE À CAVITÉ EXTERNE VERTICALE

---

(84) Designated Contracting States:  
**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**

• **MÖENCH, Holger**  
**5656 AE Eindhoven (NL)**

(30) Priority: **03.11.2010 EP 10189788**

(74) Representative: **Witte, Weller & Partner**  
**Patentanwälte mbB**  
**Postfach 10 54 62**  
**70047 Stuttgart (DE)**

(43) Date of publication of application:  
**11.09.2013 Bulletin 2013/37**

(73) Proprietor: **TRUMPF Photonic Components GmbH**  
**89081 Ulm (DE)**

(56) References cited:  
**JP-A- 2002 289 969** **JP-A- 2003 060 299**  
**JP-A- 2006 066 538** **US-A- 6 026 111**  
**US-A1- 2006 165 144** **US-A1- 2007 002 922**

(72) Inventors:  
• **GRONENBORN, Stephan**  
**5656 AE Eindhoven (NL)**

**EP 2 636 111 B8**

---

Note: Within nine months of the publication of the mention of the grant of the European patent in the European Patent Bulletin, any person may give notice to the European Patent Office of opposition to that patent, in accordance with the Implementing Regulations. Notice of opposition shall not be deemed to have been filed until the opposition fee has been paid. (Art. 99(1) European Patent Convention).

---