



(12) **CORRECTED EUROPEAN PATENT APPLICATION**

(15) Correction information:
Corrected version no 1 (W1 A1)
Corrections, see
Bibliography INID code(s) 71

(51) Int Cl.:
G02B 13/00 ^(2006.01) **H01L 27/146** ^(2006.01)
B29D 11/00 ^(2006.01)

(48) Corrigendum issued on:
26.02.2020 Bulletin 2020/09

(43) Date of publication:
15.01.2020 Bulletin 2020/03

(21) Application number: **18182654.6**

(22) Date of filing: **10.07.2018**

(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**
Designated Extension States:
BA ME
Designated Validation States:
KH MA MD TN

(71) Applicant: **CSEM Centre Suisse d'Electronique et
de
Microtechnique SA - Recherche et
Développement
2007 Neuchâtel (CH)**

(72) Inventors:
• **Gimkiewicz, Christiane**
85737 Ismaning bei München (DE)
• **Nussbaum, Pascal**
2052 Fontainemelon (CH)
• **Hendricks, Nicholas**
8810 Horgen (CH)

(74) Representative: **P&TS SA (AG, Ltd.)**
Avenue J.-J. Rousseau 4
P.O. Box 2848
2001 Neuchâtel (CH)

(54) **MICRO-OPTICAL COMPONENT FOR GENERATING AN IMAGE**

(57) The present invention concerns a micro-optical component (100) for generating an image, comprising:
- a substrate (20), comprising a first surface (21) and a second surface (22), wherein the first surface (21) comprises an aperture (12), and the second surface (22) is arranged to be connected to pixel array (300),
- a lens (10; 10'), placed on the first surface (21) so as to cover the aperture (12), the focal point of the lens (10; 10') belonging to the second surface (22).

The lens (10; 10') comprises an obscuration element generating at the lens an obscured area (40) and an unobscured area (50), wherein the obscuration element is dimensioned to reduce the light transmittance towards the pixels for a fraction of the viewing angles only and at the same time, the obscured area is dimensioned so that the optical resolution of the lines is not smaller than the image resolution given by the size of the pixels.

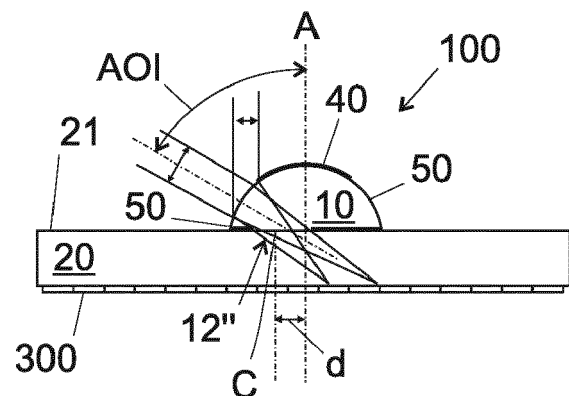


Fig.2A