

Title (en)
VARIABLE FOCUS ZOOM LENSES

Title (de)
ZOOMLINSEN MIT VARIABLEM FOKUS

Title (fr)
OBJECTIFS A FOCAL VARIABLE

Publication
EP 2054743 A4 20090902 (EN)

Application
EP 06769720 A 20060824

Priority
SG 2006000243 W 20060824

Abstract (en)
[origin: WO2008024071A1] The present invention provides a variable focus semi-solid zoom lens, methods of making and using the variable focus lens and optical devices containing the variable focus semi-solid lens. The focal length is controllable by changing the shape, size, dimension, geometry, outer diameter or surface curvature of the semi-solid lens. The change of the focal length can be achieved by using a pressure control device coupled with the semi-solid lens. The semi-solid lens can also be mounted in a housing.

IPC 8 full level
G02B 3/14 (2006.01); **G02B 7/04** (2006.01)

CPC (source: EP)
G02B 3/14 (2013.01); **G02B 7/04** (2013.01)

Citation (search report)

- [X] JP 2005351971 A 20051222 - CASIO COMPUTER CO LTD
- [X] US 4892396 A 19900109 - KUSHIBIKI NOBUO [JP], et al
- [X] US 6081388 A 20000627 - WIDL ANDREAS [DE]
- [X] US 4783155 A 19881108 - IMATAKI HIROYUKI [JP], et al
- [X] WO 2005073778 A1 20050811 - KONINKL PHILIPS ELECTRONICS NV [NL], et al
- [A] WO 2004083899 A2 20040930 - NOKIA CORP [FI], et al
- [A] US 4784479 A 19881115 - IKEMORI KEIJI [JP]
- See references of WO 2008024071A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

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AL BA HR MK RS

DOCDB simple family (publication)
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