

## SEARCH HISTORY

<b>Application Number</b>	PCT/US 19/64911
<b>Search Conducted By</b>	JQ
<b>Search Approved By</b>	ADS

<b>CPC/IPC Classifications Searched</b>	CPC - A61B 3/102; A61B 3/11; A61B 3/13; A61B 3/132; A61F 2/1662; A61F 2002/16902; A61F 9/08 IPC(8) - A61B 3/11 (2020.01)
<b>Date Conducted</b>	02 February 2020 (02.02.2020)

<b>Documentation Searched</b>	CPC - A61B 3/102; A61B 3/11; A61B 3/13; A61B 3/132; A61F 2/1662; A61F 2002/16902; A61F 9/08 IPC(8) - A61B 3/11 (2020.01)
<b>Search Terms Used</b>	Intraocular/ intra-ocular lens biometer/ biometry user interface autorefractor eye training set deep learning formula estimated error
<b>Date Conducted</b>	02 February 2020 (02.02.2020)

<b>Electronic Database Searched</b>	PatBase
<b>Files Searched</b>	Full-text: AU BE BR CA CH CN DE DK EP ES FI FR GB IN JP KR SE TH TW US WO Bibliographic: (Europe) AT BA BE BG CH CS CY CZ DD DK EE ES FI GE GR HR HU IE IS IT LT LU LV MC MD MT NL NO PL PT RO RS SE SI SK SM TR UA YU (Asia) EA GC HK ID IL IN KZ MN MY PH RU SG SU TH TJ TW UZ VN (North America) CA CR CU DO GT HN MX NI PA SV TT (South America) AR BR CL CO EC PE UY (Australasia) AU NZ (Africa) AP DZ EG KE MA MW OA ZA ZM ZW
<b>Date Conducted</b>	02 February 2020 (02.02.2020)

**Search Logic:**

Classification Search:

1) CPC=(A61B3/102 or A61B3/11 or A61B 3/13 or A61B3/132 or A61F2/1662 or

- A61F2002/16902 or A61F9/08) (3127)
- 2) IC=(A61B3/11) (1638)
- 3) 1 or 2 (4552)
- 4) 3 and FT=((intraocular or intra-ocular) w3 lens) (462)
- 5) 4 and FT=(biometer or biometry) (59)
- 6) 5 and FT=(autorefractor) (4)
- 7) 5 and FT=(training w3 set%) (0)
- 8) 4 and FT=(autorefractor) (12)
- 9) 8 not 6 (8)
- 10) 4 and FT=(training w3 set%) (4)
- 11) 10 not (6 or 8) (3)
- 12) 3 and FT=(deep w3 learning) (41)
- 13) 12 and FT=(training w3 set%) (12)
- 14) 13 and FT=(eye%) (12)
- 15) 14 and FT=(formula) (0)
- 16) 14 and FT=(estimated w3 error) (0)
- 17) 14 not (6 or 8 or 10) (10)

Search limited only by search terms and not by classifications:

- 18) FT=(biometer or biometry) (1356)
- 19) 18 and FT=((intraocular or intra-ocular) w3 lens) (200)
- 20) 19 and FT=(autorefractor) (23)
- 21) 20 and FT=(training w3 set%) (2)
- 22) 21 not (6 or 8 or 10 or 14) (2)
- 23) 20 and FT=(deep w3 learning) (2)
- 24) 23 not (6 or 8 or 10 or 14 or 21) (0)

F/B search:

- 25) pn=(us2015103313 or us2019110753) (2)
- 26) ctb 25 or ctf 25 (16)
- 27) 26 not (6 or 8 or 10 or 14 or 21 or 23) (16)

<b>Electronic Database Searched</b>	Google
<b>Files Searched</b>	Google Patents
<b>Date Conducted</b>	02 February 2020 (02.02.2020)
<b>Search Logic:</b>	
<p>biometer eye intraocular lens About 13,800 results</p> <p>biometer eye intraocular lens user interface About 10,700 results</p> <p>biometer eye intraocular lens user interface autorefractor About 386 results</p> <p>biometer eye intraocular lens user interface autorefractor training set About 314 results</p> <p>biometer eye intraocular lens user interface autorefractor deep learning</p>	

About 88 results

<b>Electronic Database Searched</b>	Google
<b>Files Searched</b>	Google Scholar
<b>Date Conducted</b>	02 February 2020 (02.02.2020)
<b>Search Logic:</b>	
<p>biometer eye intraocular lens About 17,600 results</p> <p>biometer eye intraocular lens user interface About 14,200 results</p> <p>biometer eye intraocular lens user interface autorefractor About 691 results</p> <p>biometer eye intraocular lens user interface autorefractor training set About 416 results</p> <p>biometer eye intraocular lens user interface autorefractor deep learning About 129 results</p>	

**Supplemental Search (SAO-ADS):**

<b>Electronic Database Searched</b>	PatBase
<b>Files Searched</b>	<p>Full-text: AU BE BR CA CH CN DE DK EP ES FI FR GB IN JP KR SE TH TW US WO</p> <p>Bibliographic: (Europe) AT BA BE BG CH CS CY CZ DD DK EE ES FI GE GR HR HU IE IS IT LT LU LV MC MD MT NL NO PL PT RO RS SE SI SK SM TR UA YU (Asia) EA GC HK ID IL IN KZ MN MY PH RU SG SU TH TJ TW UZ VN (North America) CA CR CU DO GT HN MX NI PA SV TT (South America) AR BR CL CO EC PE UY (Australasia) AU NZ (Africa) AP DZ EG KE MA MW OA ZA ZM ZW</p>
<b>Date Conducted</b>	08 February 2020 (08.02.2020)
<b>Search Logic:</b>	
<p>1 biometer AND (user w2 interface*) 19</p> <p>2 1 AND biometer AND (lens W3 parameter) 1</p> <p>3 biometer AND (lens W3 parameter) 2</p> <p>4 tac=biometer 47</p> <p>5 4 AND (deep W2 learning) 1</p> <p>6 2 OR 3 OR 5 2</p>	