

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
15 December 2005 (15.12.2005)

PCT

(10) International Publication Number
WO 2005/119342 A3

(51) International Patent Classification:
G02C 1/04 (2006.01)

(21) International Application Number:
PCT/US2005/019424

(22) International Filing Date: 2 June 2005 (02.06.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/576,367 2 June 2004 (02.06.2004) US

(71) Applicant (for all designated States except US): BA-
COU-DALLOZ EYE & FACE PROTECTION, INC.
[US/US]; 910 Douglas Pike, Smithfield, RI 02917 (US).

(72) Inventors: CANAVAN, Richard, W.; 166 Woodstock
Road, Woodstock, CT 06281 (US). MITTERSINKER,
Gregor; 134 Spring Road, Warwick, RI 02888 (US).
JOBIN, Michael, J.; 1682 Washington Street, #3, Boston,
MA 02118 (US).

(74) Agent: TETREAU, Mark; Barlow, Josephs &
Holmes, Ltd., 5th Floor, 101 Dyer Street, Providence, RI
02903 (US).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA,
MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ,
OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL,
SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC,
VN, YU, ZA, ZM, ZW.

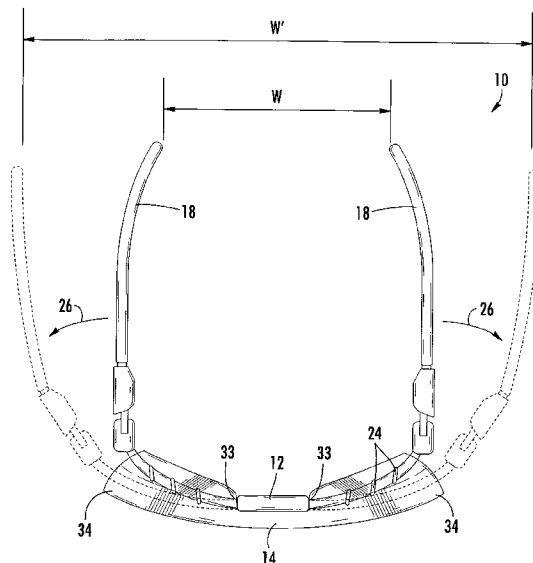
(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,
SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,
GQ, GW, ML, MR, NE, SN, TD, TG).

Published:
— with international search report

(88) Date of publication of the international search report:
15 February 2007

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: FLOATING LENS BROW BAR ATTACHMENT FOR EYEGLASSES



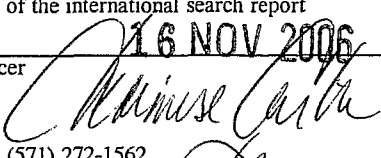
(57) Abstract: A brow bar (12) and lens (14) assembly for eyeglasses (10) is provided wherein a flexible brow bar member (12) is attached to a lens assembly (14) only along a central region. By attaching the lens (14) and brow bar (12) in this manner, the brow bar (12) is allowed to flex relative to the lens (14) thereby providing additional means for adjusting the width of the eyeglasses (10) and increasing the comfort for the wearer. Further, the lens construction may include channels (34) along its top edge thereby creating voids that provide a space into which the two ends of the brow bar (12) can travel when deflected relative to the central region.

WO 2005/119342 A3

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US05/19424

<p>A. CLASSIFICATION OF SUBJECT MATTER IPC: G02C 1/04(2006.01)</p> <p>USPC: 351/41,103,104,105,106,107,108,109 According to International Patent Classification (IPC) or to both national classification and IPC</p>													
<p>B. FIELDS SEARCHED</p> <p>Minimum documentation searched (classification system followed by classification symbols) U.S. : 351/41, 103, 104, 105, 106, 107, 108, 109</p> <p>Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched</p> <p>Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Please See Continuation Sheet</p>													
<p>C. DOCUMENTS CONSIDERED TO BE RELEVANT</p> <table border="1"> <thead> <tr> <th>Category *</th> <th>Citation of document, with indication, where appropriate, of the relevant passages</th> <th>Relevant to claim No.</th> </tr> </thead> <tbody> <tr> <td>X</td> <td>US 6,367,927 A (YANG) 9 April 2002 (09.04.02), see entire document.</td> <td>1-3</td> </tr> <tr> <td>X</td> <td>US 3,171,134 A (KENNEDY) 2 March 1965 (02.03.65), see Fig. 2.</td> <td>8</td> </tr> <tr> <td>A</td> <td>US 5,729,321 A (WIELHOUWER) 17 March 1998 (17.03.98), see entire document.</td> <td>1-9</td> </tr> </tbody> </table>		Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	X	US 6,367,927 A (YANG) 9 April 2002 (09.04.02), see entire document.	1-3	X	US 3,171,134 A (KENNEDY) 2 March 1965 (02.03.65), see Fig. 2.	8	A	US 5,729,321 A (WIELHOUWER) 17 March 1998 (17.03.98), see entire document.	1-9
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.											
X	US 6,367,927 A (YANG) 9 April 2002 (09.04.02), see entire document.	1-3											
X	US 3,171,134 A (KENNEDY) 2 March 1965 (02.03.65), see Fig. 2.	8											
A	US 5,729,321 A (WIELHOUWER) 17 March 1998 (17.03.98), see entire document.	1-9											
<p><input type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/> See patent family annex.</p>													
<p>* Special categories of cited documents:</p> <table border="0"> <tr> <td>"A" document defining the general state of the art which is not considered to be of particular relevance</td> <td>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</td> </tr> <tr> <td>"E" earlier application or patent published on or after the international filing date</td> <td>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</td> </tr> <tr> <td>"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</td> <td>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art</td> </tr> <tr> <td>"O" document referring to an oral disclosure, use, exhibition or other means</td> <td>"&" document member of the same patent family</td> </tr> <tr> <td>"P" document published prior to the international filing date but later than the priority date claimed</td> <td></td> </tr> </table>		"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention	"E" earlier application or patent published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone	"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art	"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family	"P" document published prior to the international filing date but later than the priority date claimed			
"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention												
"E" earlier application or patent published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone												
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art												
"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family												
"P" document published prior to the international filing date but later than the priority date claimed													
<p>Date of the actual completion of the international search</p> <p>01 September 2006 (01.09.2006)</p>	<p>Date of mailing of the international search report</p> <p>16 NOV 2006</p>												
<p>Name and mailing address of the ISA/US</p> <p>Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (571) 273-3201</p>	<p>Authorized officer</p> <p>Huy K. Mai </p> <p>Telephone No. (571) 272-1562</p>												

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US05/19424

Continuation of B. FIELDS SEARCHED Item 3:

EAST:

Search terms: eyeglasses, sunglasses, eyewear, spectacles, goggles, brow bar, deflect, channel, lens