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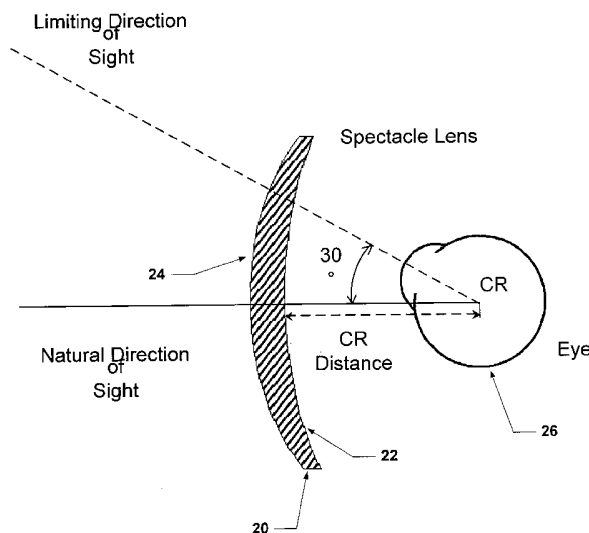
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(54) Title: SPECTACLE LENSES INCORPORATING ATORIC SURFACES



(57) Abstract: An atoric surface is formed such that the surface coordinate lines are parallels with the shape of off-set curves of the trajectory curve of a swept surface, and meridians with the shape of the section curve of such swept surface. The lines of curvature of the surface coincide with the coordinate lines, so that the surface cylinder axis at any point P of the atoric surface is tangent to one of the two coordinate lines that passes through P. Atoric surfaces with lines of curvature in the form of meridian and parallel curves are highly suitable for astigmatic surfaces in spectacle lens design. The atoric surface design methodology provided herein is used to generate a broad range of surfaces from this class, thereby providing substantial flexibility over prior methods.



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INTERNATIONAL SEARCH REPORT

International application No.

PCT/IB05/04147

A. CLASSIFICATION OF SUBJECT MATTER

IPC: G02C 7/02(2006.01)

USPC: 351/176

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 351/176, 177

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
NONE

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
Please See Continuation Sheet

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X --- A	US 3,960,442 A (DAVIS et al) 01 June 1976 (01.06.1976), Figures 1, 4; column 3, line 33 - column 4, line 13.	1 ----- 2-48



Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents:	
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"P" document published prior to the international filing date but later than the priority date claimed	

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Continuation of B. FIELDS SEARCHED Item 3:

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search terms: atoric or atoroid\$3; atoric or atoroid\$3 and lens; atoric or atoroid\$3 and lens not ((351/176) or (351/177)).CCLS. and atoric or ((351/176) or (351/177)).CCLS. and atoroid\$3; (atoric or atoriod\$3).clm.; lens.clm.; (atoric or atoroid\$3).clm.; astigmatic.clm.; astigmatic\$3.clm.