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(54) **Prism based dynamic vision training device and method thereof**

(57) A vision training device includes a fixed frame positionable in front of a wearer's face. The fixed frame defines two windows corresponding in position to the eyes of the wearer, through which light passes. An optic system includes a prism lens, which may have fixed power or variable power by changing shapes thereof. The prism lens is mounted to the fixed frame and is movable between first and second positions, wherein in the first position, light is allowed to pass in a first state with

which the eyes are adducted, and in the second position, light is allowed to pass in a second state with which the eyes are abducted. A transmission system is coupled to and selectively drives the prism lens between the first and second positions. Thus, by repeatedly and cyclically moving the prism lens between the first and second positions, the eyes are forced to change between adduction and abduction thereby realizing training of vision.

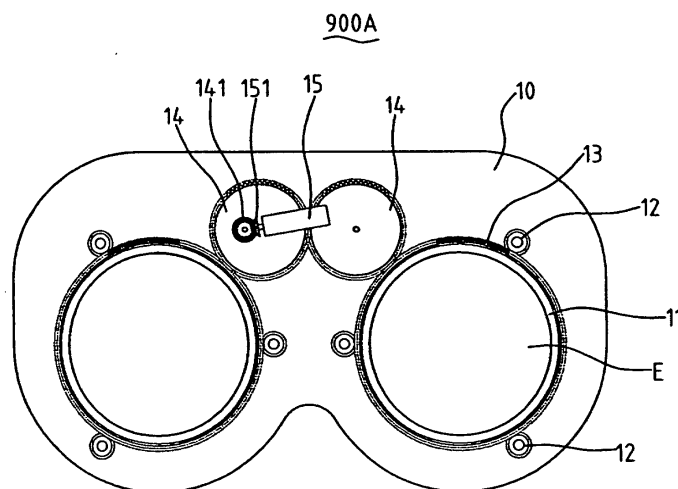


FIG. 7



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PARTIAL EUROPEAN SEARCH REPORT

Application Number

which under Rule 45 of the European Patent Convention EP 03 01 3071
shall be considered, for the purposes of subsequent
proceedings, as the European search report

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
X	US 3 875 934 A (SADANAGA KAZUKIYO) 8 April 1975 (1975-04-08) * column 2, line 32 - column 5, line 27; figures 1-6 *	1,2, 4-13,21, 23	A61H5/00
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X A	US 770 645 A (LUNDGREN GUSTAV E) 20 September 1904 (1904-09-20) * page 1, line 65 - page 2, line 102; figures 1-9 *	1,14-16, 21,23 15	
X A	US 2 664 885 A (MANDAVILLE GURNEY L) 5 January 1954 (1954-01-05) * column 3, line 17 - column 6, line 28; figures 1-8 *	1,21,25 8-13	
			A61H A61B
INCOMPLETE SEARCH			
<p>The Search Division considers that the present application, or one or more of its claims, does/do not comply with the EPC to such an extent that a meaningful search into the state of the art cannot be carried out, or can only be carried out partially, for these claims.</p> <p>Claims searched completely :</p> <p>Claims searched incompletely :</p> <p>Claims not searched :</p> <p>Reason for the limitation of the search:</p> <p>see sheet C</p>			
Place of search		Date of completion of the search	Examiner
The Hague		28 October 2003	Oelschläger, H
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document</p>			



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**INCOMPLETE SEARCH
SHEET C**

Application Number
EP 03 01 3071

Claim(s) not searched:
26-30

Reason for the limitation of the search (non-patentable invention(s)):

Article 52 (4) EPC - Method for treatment of the human or animal body by
therapy

PARTIAL EUROPEAN SEARCH REPORT

Application Number
EP 03 01 3071

[illegible]



European Patent
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Application Number

EP 03 01 3071

CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing more than ten claims.

☐ Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and for those claims for which claims fees have been paid, namely claim(s):

☐ No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims.

LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

see sheet B

☐ All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.

☐ As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.

☐ Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:

☒ None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:

1-25



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LACK OF UNITY OF INVENTION
SHEET B

Application Number
EP 03 01 3071

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. claims: 1-25

a) a vision training device comprising

- b) a fixed frame adapted to be positioned in front of a wearer's face,
- c) the fixed frame defining at least a window corresponding in position to an eye of the wearer, through which light passes,
- d) an optic system comprising a prism lens movably mounted to the fixed frame to be movable between first and second positions,
- e) and a transmission system coupled to and selectively driving the prism lens between the first and second position.

2. claims: 31-52

a) a vision training device comprising

- b) a fixed frame adapted to be positioned in front of a wearer's face,
- c) the fixed frame defining at least a window corresponding in position to an eye of the wearer, through which light passes,
- f) an adjustable optic system comprising a first lens mounted to the window, and a second lens mounted to the window and facing the first lens forming a first included angle therebetween to allow light to pass therethrough in a first state, the second lens being movable with respect to the first lens to change the first included angle to a second, different included angle.

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 03 01 3071

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

28-10-2003

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