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Published:

— *with international search report (Art. 21(3))*

— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*

[Continued on next page]

(54) Title: ADAPTIVE PHOTOSCREENING SYSTEM

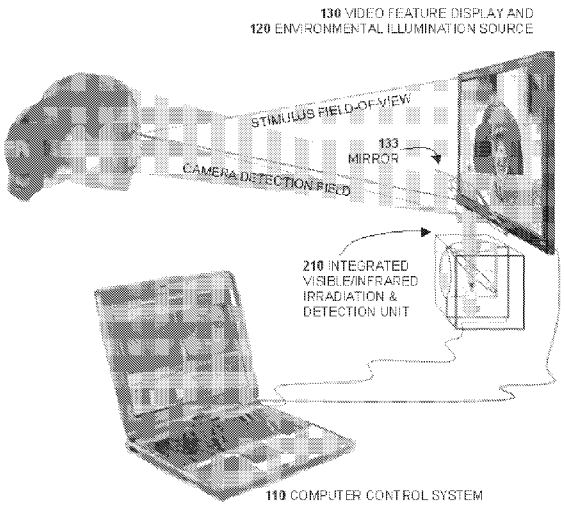


FIGURE 2

(57) Abstract: Briefly described, one embodiment of the system, among others, includes a device, for example a lens or lens system, positioned in the system to be between the eye of the examinee and the image detection system during photoscreening for shifting the neutralization of the system to a desired region for a specific population of examinees. The system can further include a computer control system and an environmental light source that is controlled by the computer control system such that an amount of light provided by the environmental light source is adjusted by the computer control so that ocular parameters of an examinee are within a targeted range. Further, the system can include an irradiation system that provides multiple angle and axial eccentricity illuminations and selective wavelength irradiation based upon instructions received from the computer control system, wherein the computer control system instructs the irradiation system to provide different irradiation characteristics for different screening procedures. Also, the system can include an image detection system that captures ocular images of the examinee, wherein the computer control system analyzes captured images and provides results of in-situ analysis. Other systems and methods are also provided.

WO 2012/106236 A3

WO 2012/106236 A3

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29 November 2012

INTERNATIONAL SEARCH REPORT

International application No.
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A. CLASSIFICATION OF SUBJECT MATTER

A61B 3/024(2006.01)i, A61B 3/08(2006.01)i, A61B 3/14(2006.01)i, A61B 3/18(2006.01)i

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)

A61B 3/024; A61B 3/113; H04N 7/18; A61B 3/00; G09B 3/00; A61B 3/14

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean utility models and applications for utility models
Japanese utility models and applications for utility models

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

eKOMPASS(KIPO internal) & Keywords: photoscreening, ocular, detection,eye

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2009-0079937 A1 (CHEN YING-LING ANN et al.) 26 March 2009 See abstract, paragraphs [0007],[0035]-[0068],[0122], claims1,2,16 and figures 1-16	1-3,13-15
A	US 2004-0076942 A1 (JAMES W. O&APOS;NEIL et al.) 22 April 2004 See abstract,claim 1 and figure 1	1-3,13-15
A	US 2008-0024721 A1 (TOKIO UENO et al.) 31 January 2008 See abstract, claims 1-6 and figure 1	1-3,13-15

☐ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"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

"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

"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

"&" document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
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Name and mailing address of the ISA/KR

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INTERNATIONAL SEARCH REPORT

International application No.
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Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. ☒ Claims Nos.: 9
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

The subject-matter of claim 9 is unclear because they refer to claim 8 which does not comply with PCT Rule 6.4(a).

3. ☒ Claims Nos.: 4-8,10-12,16-20
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required addtional search fees were timely paid by the applicant, this international search report covers all searchable claims.

2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.

3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:

4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

☐ The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.

☐ The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.

☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/US2012/023097

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