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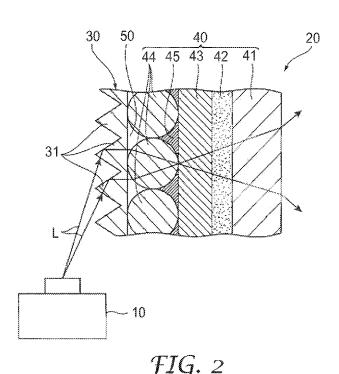
JP

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[Continued on next page]

(54) Title: PROJECTION SYSTEM



(57) Abstract: The present application provides a projection system by which constraints placed on space use of a user can be reduced. The projection system includes: a projector and a screen. The screen includes a first film for transmitting image light incoming from the projector and a second film for transmitting the image light transmitted through the first film. A pattern for refracting or reflecting the image light toward the second film is formed on a light entrance face of the first film receiving the image light. The incident angle of the image light entering the first film is not less than 20 degrees.



EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

 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))

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CLASSIFICATION OF SUBJECT MATTER A.

G03B 21/60(2006.01)i

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

FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) G03B 21/60; G02B 27/10; G03B 21/56

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: rear projection, dual layer, film, pattern, incident angle, circular

DOCUMENTS CONSIDERED TO BE RELEVANT C.

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 20070091431 A1 (MEZOUARI et al.) 26 April 2007 See abstract, paragraph [0086], claim 23 and figures 3, 8.	1-3
Y	US 20040070837 A1 (ODA et al.) 15 April 2004 See abstract, paragraphs [0064]-[0066] and figure 3B.	1-3
A	US 20030053207 A1 (BALLEN et al.) 20 March 2003 See abstract, claim 1 and figure 3	1-3
А	US 4531812 A (OGUINO) 30 July 1985 See abstract and figures 2.	1-3

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 state.	the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be
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	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 26 FEBRUARY 2013 (26.02.2013)	Date of mailing of the international search report 27 FEBRUARY 2013 (27.02.2013)
Name and mailing address of the ISA/KR	Authorized officer

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KANG, Sung Chul

Telephone No. 82-42-481-8405

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US2012/051838

Box No. II	Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This interna	ational search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
	aims Nos.: cause they relate to subject matter not required to be searched by this Authority, namely:
2 🗔 0	oima Nea 1 5 7 0
be be	aims Nos.: 5, 7, 9 cause they relate to parts of the international application that do not comply with the prescribed requirements to such an tent that no meaningful international search can be carried out, specifically:
	Claims 5, 7, 9 have been drafted as dependent claims on multiple dependent claims, thereby rendering the claims unclear (PCT Article 6).
	aims Nos.: 4, 6, 8 cause they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
	Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
	ational Searching Authority found multiple inventions in this international application, as follows:
	s all required additional search fees were timely paid by the applicant, this international search report covers all searchable aims.
2. As	s all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment any additional fee.
	s only some of the required additional search fees were timely paid by the applicant, this international search report covers ly those claims for which fees were paid, specifically claims Nos.:
	o required additional search fees were timely paid by the applicant. Consequently, this international search report is stricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark o	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/US2012/051838

Information on patent family members			PCT/US2012/051838	
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