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(54) Title: METHOD AND APPARATUS FOR JOINING SCREEN MATERIAL FOR MINIMAL OPTICAL DISTORTION

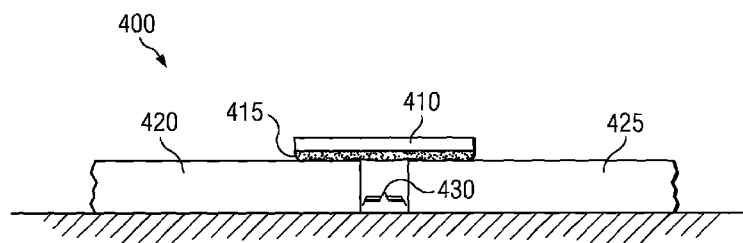


FIG. 4

(57) Abstract: The present disclosure describes a manufacturing method for seaming materials. The process may be suitable for manufacturing high performance projection screens using a number of methods including, but not limited to, conventional (convert-before-coating) methods, or convert-after-coating methods. An objective of the present disclosure is to identify a process which may substantially minimize distortion of the local surface normal in the vicinity of the join.

A. CLASSIFICATION OF SUBJECT MATTER**G03B 21/56(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)

G03B 21/56; E04F 13/00; B41L 13/00; G03B 21/60

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

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

eKOMPASS(KIPO internal) & Keywords: projection, screen, backer, joining, vertical, distortion

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2009-0297797 A1 (COLEMAN, D. A. et al.) 03 December 2009 See abstract; paragraph [0183] and claims 11, 12, 15, 17, 20.	1,2,4,7,8,12,13,15 ,17,19,20
A	See abstract; paragraph [0183] and claims 11, 12, 15, 17, 20.	3,5,6,9-11,14,16 ,18
A	US 2005-0034614 A1 (KASUYA, F.) 17 February 2005 See paragraphs [0065]-[0067] and figures 1(a)-1(h).	1-20
A	JP 03-020729 A (MATSUSHITA ELECTRIC IND CO LTD et al.) 29 January 1991 See claims 1, 3 and figure 3.	1-20
A	US 7068427 B2 (HOPKINS, J. T. et al.) 27 June 2006 See abstract; column 3, lines 41-55; claim 1 and figure 1.	1-20



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