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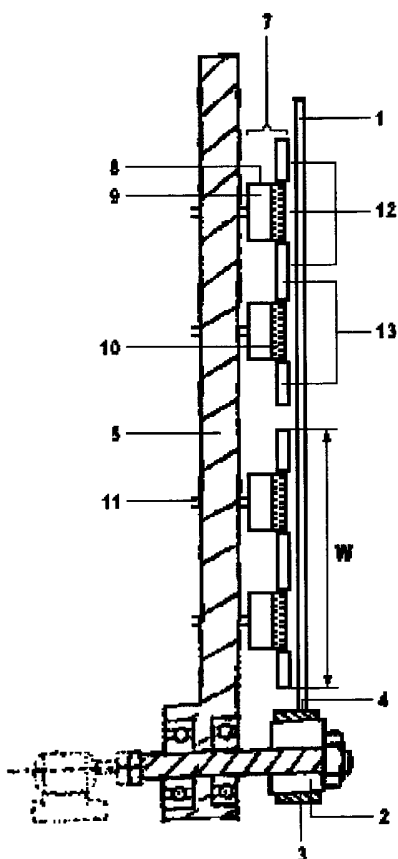
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(54) Title: CONVEYOR FOR PLATE-SHAPED MEMBERS



(57) Abstract: This invention is intended to provide a conveying system that can convey both thin and large plate-shaped members such as LCD, PDP, and organic EL without generating dust or causing damage to the plate-shaped members, to improve the performance of the conveying system in the patent of the applicant of this invention, the 'Plate-shaped Member Conveying System and Washing Device' (Korea Patent No. 0339716) by applying the technology, the 'Plate-shaped Member Conveying System and Washing Device' for which the applicant of this invention has applied for an international patent on March 30, 2004 (Patent Application No. 6-1-2004-0005158-13) and to expand the usage of the system. The plate-shaped member conveying system of this invention conveys a plate-shaped member through such means as follows: Install porous material having a flat part on top of the main body into which pressurized fluid is supplied, seal the space among several porous materials with a horizontal plate to form a layer of pressurized fluid erupting through the porous materials and another pressurized fluid layer between the horizontal sealing plate and the plate-shaped member so that the weight of the plate-shaped member can be supported by the pressurized fluid throughout a large area uniformly. Then the plate-shaped member can be conveyed vertically or inclined without contacting the floating device with its bottom being supported on the conveyor.



For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/KR2004/001338

A. CLASSIFICATION OF SUBJECT MATTER

IPC7 H01L 21/68

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)

IPC7 H01L, C23C

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

KOREAN PATENTS AND APPLICATIONS FOR INVENTIONS SINCE 1975

KOREAN UTILITY MODELS AND APPLICATIONS FOR UTILITY MODELS SINCE 1975

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

KIPONET

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y	KR 2001-50424 (DAIICHI SHISETSU KOGYO KK., NAGATA TETSUZO) 15.JUNE.2001 SEE THE CLAIM1 AND ABSTRACT	1 3
X Y	JP13-213517 A (DAIICHI SHISETSU KOGYO KK., NAGATA TETSUZO) 07.AUGUST.2001 SEE THE WHOLE DOCUMENT	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 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

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Date of the actual completion of the international search

27 AUGUST 2004 (27.08.2004)

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/KR2004/001338

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.: 2
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:
In claim 2, a carrier is slited by Θ degree,. However Θ is not fixed and has not range.
3. ☒ Claims Nos.: 4
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 additional 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 addition 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.
- ☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
KR 2001-50424 A	15.06.2001	JP13-85496 A	30.03.2001
JP 13-213517 A	07.08.2001	KR01-70234 A	25.07.2001