Title: BUILDING CIRCULATION SYSTEM USING CURTAIN WALL AS VENTILATOR

Abstract: A ventilation system for a high-rise building is disclosed. The ventilation system comprises an external curtain wall 200 disposed to surround the building. The external curtain wall is spaced apart outwardly from the outer wall 22 by a certain distance. An external air suction port 210 is disposed in lower story portion of the external curtain wall 200. External air is introduced through the external air suction port 210. An air stream exhaust port is provided in a space between the rooftop of the building and the upper end of the external curtain wall 200 extended horizontally to cover part of the rooftop of the building. The air stream exhaust port 220 has a pivot slit capable of being closed and opened. The external curtain wall 200 does not surround the entire four sides of the building, but part of the building sides is open without installing the external curtain wall 200 such that external air is directly introduced into the internal space of the building through a window 11 provided in the respective stories of the building, thereby using the external curtain wall as an exhausting space.
INTERNATIONAL SEARCH REPORT

PCT/KR2008/007265

A. CLASSIFICATION OF SUBJECT MATTER

F24F 7/10(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)

IPC F24F 7/10, 7/00, E04B 1/70, 1/74, 2/88

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 since 1975

Japanese 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)

eKOMPASS (KIPO Internal) & Keywords curtain wall, chimney effect, tint*

C. DOCUMENTS CONSIDERED TO BE RELEVANT

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<th>Category</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
<th>Relevant to claim No</th>
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<tr>
<td>Y</td>
<td>KR 10-0719858 B (DAELIM INDUSTRIAL CO., LTD) 18 May 2007 See pages 3, 4 and figure 1</td>
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<td>Y</td>
<td>JP 2002-194826 A (TAISEI CO.) 10 July 2002 See paragraphs 3 to 23 and figure 1</td>
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<td>JP 2005-105732 A (MITSUBISHI JISHO SEKKEI INC.) 21 April 2005 See paragraphs 50, 51 and figures 1 to 3</td>
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Date of the actual completion of the international search
23 JULY 2009 (23 07 2009)

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<td>KR 10-0719858 B</td>
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