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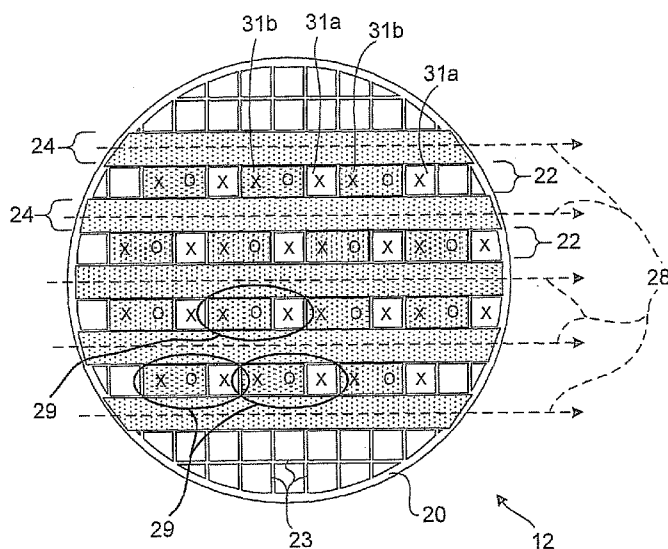


Fig. 3

(57) Abstract: A honeycomb reactor or heat exchanger (12) includes a honeycomb (20) having a plurality of cells (22, 24) extending in parallel along a common direction from a first end (14) to a second end (16) thereof, with the cells being divided by walls (23), the honeycomb (20) having one or more first passages (28) formed within a first plurality of cells (24) of the honeycomb (20), the first passages (28) extending laterally from cell to cell within the honeycomb (20) and being accessible via ports or holes (30) in or through a side (18) of the honeycomb (20). The honeycomb (20) also has a plurality of second passages (29) formed within a second plurality of cells (22) within the honeycomb (20), the second passages (29) each extending from first cell openings (31a) at the first end (14) of the honeycomb (20) to second cell openings (31b) at the second end (16) of the honeycomb (20). The second passages (29) each describe at least one S-bend beginning at the first end (14) of the monolith (20) and extending to the second end (16) and there bending back to the first end (14) and there bending back again to the second end (16).

INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
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B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

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

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C. DOCUMENTS CONSIDERED TO BE RELEVANT

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X	JP 2007 196180 A (NAT INST OF ADV IND & TECHNOL) 9 August 2007 (2007-08-09) abstract; figures -----	1-4,6-9
X	DE 10 2007 045123 A1 (BAYER TECHNOLOGY SERVICES GMBH [DE]) 2 April 2009 (2009-04-02) paragraphs [0008], [0009], [0041] - paragraph [0043]; figures ----- -/-	1-4,6-9, 11

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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INTERNATIONAL SEARCH REPORT

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