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[Continued on next page]

(54) Title: FLUID TRANSFER ASSEMBLIES AND RELATED METHODS

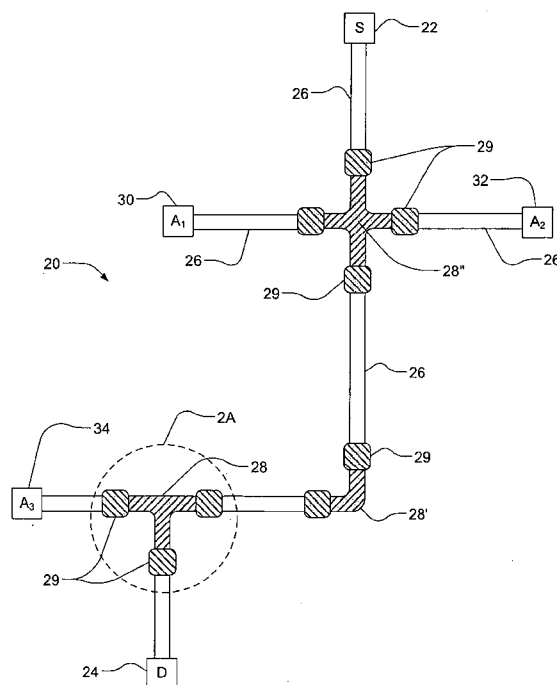


FIG. 1

(57) Abstract: An assembly includes a first polymeric connector having a first passageway and a second passageway fixed relative to the first passageway; a first polymeric conduit having a third passageway in fluid communication with the first passageway; and a polymeric member extending over a gap between the first connector and the first conduit and at least portions of outer surfaces of the first connector and the first conduit. A method of attaching a first polymeric connector having a first passageway and a second passageway fixed relative to the first passageway, and a first polymeric conduit having a third passageway, the method includes attaching the first polymeric connector to the first polymeric conduit with a polymeric member extending over at least portions of outer surfaces of the first connector and the first conduit. The first passageway is in fluid communication with the third passageway.



OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML,
MR, NE, SN, TD, TG).

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amendments (Rule 48.2(h))*

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A. CLASSIFICATION OF SUBJECT MATTER*A61M 39/10(2006.01)i, A61M 37/00(2006.01)i, A61M 39/02(2006.01)i, A61M 5/00(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 : A61M 39/10

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)

eKIPASS(KIPO internal) "connector", "polymer", "conduit"

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2005/0131357 A1 (Marshall, Denton et al.), 16 JUNE 2005 See Claims 1-36, Figures 1-10	1-3, 11-13
A	US 2003/0233074 A1 (Jack, W. Shields), 18 DECEMBER 2003 See Claims 1-17, Figures 1-21	1-3, 11-13
A	US 4,396,046 A (Kentosh, James M.), 02 AUGUST 1983 See Claims 1-7, Figures 1-4	1-3, 11-13
A	US 5,248,172 A (Wilson, Walter L.), 28 SEPTEMBER 1993 See Claims 1-4, Figures 1-4	1-3, 11-13



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

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"P" document published prior to the international filing date but later than the priority date claimed

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International application No.
PCT/US2009/001519

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.: 7
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:

Claim 7 is in reference to claim 6 that is multiple dependent claim, which is not subjected to the meaningful search in accordance with the second and the third sentence of Rule 6.4(a). Meaningful search for the subject matter of said claim therefore requires undue burden: no meaningful search would be made. [Article 17(2)(a)(ii), Article 6 PCT]
3. ☒ Claims Nos.: 4-6, 8-10, 14-21
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

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 additional 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.:

☐ 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

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PCT/US2009/001519

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2005-131357 A1	16.06.2005	None	
US 2003-233074 A1	18.12.2003	None	
US 04396046 A	02.08.1983	JP 1344679 C	29.10.1986
		JP 58-030885 A	23.02.1983
		JP 61-010356 B	28.03.1986
US 5248172 A	28.09.1993	None	