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[Continued on next page]

(54) Title: SELF-ENERGIZING ANNULAR SEAL

(57) Abstract: An annular seal assembly for forming a seal between two annular surfaces. The seal assembly includes an annular base including a sealing surface. The seal assembly also includes a pair of spaced apart rims extending from the annular base opposite the base sealing surface and in opposite directions, the rims also including sealing surfaces. The base is elastically deformable and the rims are elastically deformable relative to the base to effect a self-energized seal between the two annular surfaces.

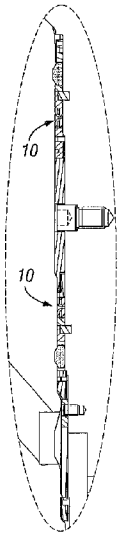


FIG. 1B

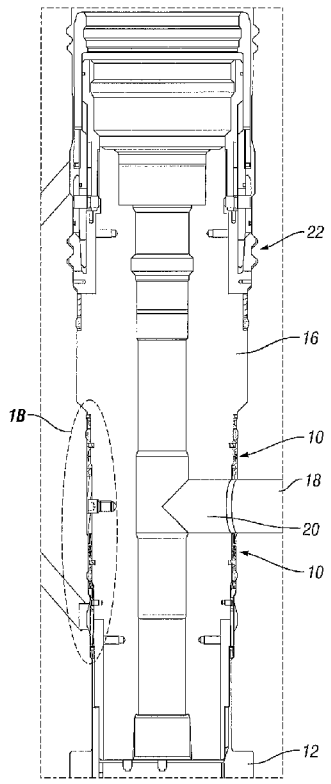


FIG. 1A

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A. CLASSIFICATION OF SUBJECT MATTER

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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)

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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) "seal", "elastic", "self energize"

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6772844 B2 (LLOYD, S. S. et al.) 10 August 2004 See the abstract and claims 1, 2, 10 and 11.	1 - 30
A	US 6612371 B2 (MCINTOSH, G. J. et al.) 2 September 2003 See the abstract and claim 1.	1 - 30
A	US 5309993 A (COON, R. J. et al.) 10 May 1994 See the abstract and claim 1.	1 - 30
A	US 5544707 A (HOPPER, H. P. et al.) 13 August 1996 See the abstract and claim 1.	1 - 30

☐ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

* Special categories of cited documents:
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"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
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"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
"&" document member of the same patent family

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INTERNATIONAL SEARCH REPORT

Information on patent family members

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US 6612371 B2	02.09.2003	GB 2370296 A	26.06.2002
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