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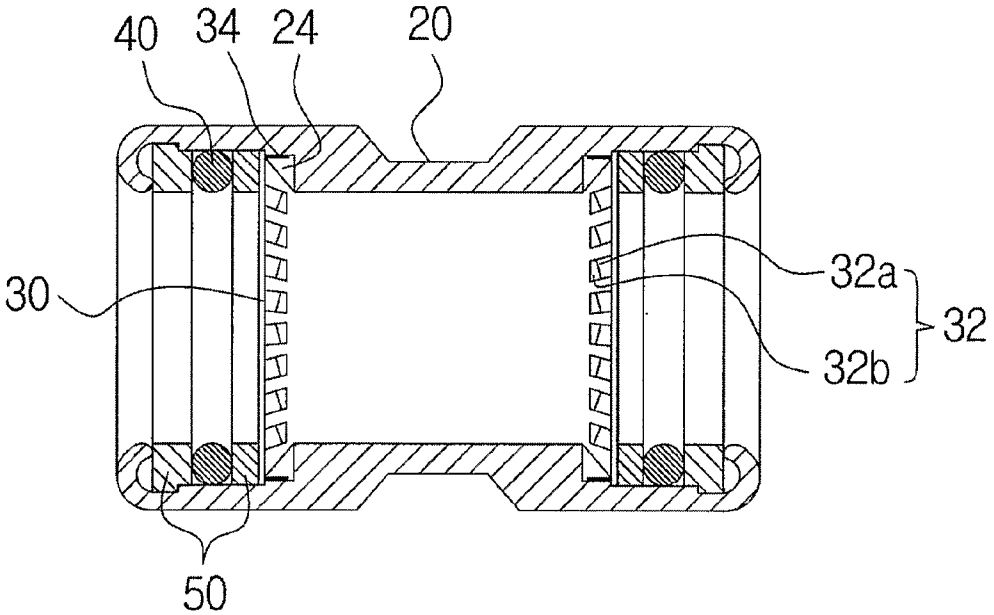
(54) Title: PIPE JOINT AND SNAP RING FOR THEREOF



(57) Abstract: The present invention relates to a pipe joint and a snap ring for the pipe joint. Hanging protrusions (32) include first bending portions (32a) wherein the hanging protrusions (32) of the snap ring (30) are bent inwardly, and second bending portions (32b) wherein the ends of the first bending portions (32a) are bent in the spiral direction with it inclined at a given angle. If the second bending portions are adhered to the pipe (10) inserted into the pipe joint body (20), the pipe is not pulled out from the pipe joint body (20) by means of a single drawing force and can be separated from the pipe joint body according to a spiral principle in the second bending portion wherein the pipes are formed spirally by rotating the pipe.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

IPC7 F16L 37/08

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 F16L37/00, 37/08, 37/12, 47/04

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
Japanese Utility Models and Application for Utility Models Since 1975

Electronic data base consulted during the intertnational search (name of data base and, where practicable, search terms used)
pipe, joint, snap ring, pawl, claw, protrusion, spiral, helical, bending

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP 8-145264 A (Bridgestone CORP) 7 JUNE 1996	1, 4, 6
A	JP 12-46282 A (Onda Seisakusho) 18 FEBRUARY 2000	1, 6

☐ 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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"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
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"&" document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
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Name and mailing address of the ISA/KR Korean Intellectual Property Office 920 Dunsan-dong, Seo-gu, Daejeon 302-701, Republic of Korea Facsimile No. 82-42-472-7140	Authorized officer YOON, Song Hoon Telephone No. 82-42-481-5415

INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
JP8-145264 A	7 JUNE 1996	NONE	
JP12-46282 A	18 FEBRUARY 2000	NONE	