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(54) Title: PERCUTANEOUS ENDOSCOPIC GASTROSTOMY WITH VALVE PORT

(57) Abstract: The present invention relates to percutaneous endoscopic gastrostomy with one valve port in patients who will use Percutaneous Endoscopic Gastrostomy set with enteral nutrition requirement, as a mechanism that provides ease of use, prevents back leakage of nutrients and gastric contents, eliminates the risk of infection caused by the set inlet remaining open, has a valve entrance and the feeding injector can provide nutrient input with direct pressure.



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PERCUTANEOUS ENDOSCOPIC GASTROSTOMY WITH VALVE PORT

Field of the Invention

5 The present invention relates to a percutaneous endoscopic gastrostomy with valve port.

State of the art

10 The provision of nutrients necessary for the development and survival of living organisms from outside is called nutrition. Nutritional supportive treatment under the supervision of a physician is defined as clinical nutrition. During the disease period, the organism becomes more susceptible to nutritional deficiency, as a result of which many health problems become easier to occur, and the decrease in body resistance has an increasing effect on morbidity and mortality rates.

15 Between 5-15% of people living their daily lives, 40% of hospitalized patients and 60% of people living in care homes are malnourished or at risk of malnutrition. Nutritional support by mouth or through a feeding tube inserted into the gastrointestinal tract is called enteral nutrition. Percutaneous Endoscopic Gastrostomy, one of the enteral nutrition methods, is a tube feeding method used in patients who cannot be fed orally.

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There are problems when using percutaneous endoscopic gastrostomy sets on the market, depending on the type of valve production. During the opening and closing of the valve, rupture, tear, cracking and consequent leakage of stomach contents and food may occur. In addition, in case of damage to the cover, a new set is used, as the cover part of this product is not sold alone on the market. This problem causes both patient victimization and increased costs. In addition, the use of such products creates difficulties for patients and their relatives.

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In the state of the art, the Percutaneous Endoscopic Gastrostomy Set with Valve Port is designed as a mechanism in which the valve is not designed to be opened-closed, but as a valve port and the nutritional injector provides nutrient input with direct pressure in order to eliminate these problems. In this way, the nutrient will not leak back and will prevent the risk of infection by eliminating the possibility of the set inlet remaining open.

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35 As a result of the examination, it was observed that there was no sample of the Percutaneous Endoscopic Gastrostomy set with Valve Port. It is understood that this set can be launched as

a promising new commercial product and that innovations in this regard will be needed even more in the near future.

Description of the Invention

5 This disclosure is intended to provide a better understanding of Percutaneous Endoscopic Gastrostomy Set with Valve Port and is not intended to have any limiting effect.

The main aim of the invention is to prevent back leakage of nutrients and gastric contents due to the valve design of the set in patients who will use Percutaneous Endoscopic Gastrostomy
10 set with enteral nutrition requirement.

Another aim is to provide ease of use for patients and their relatives.

Another aim is to prevent economic losses due to damage to the cover.
15

Another aim is to prevent the risk of infection by eliminating the possibility of the set inlet remaining open.

CLAIMS

1. Use in patients who will use Percutaneous Endoscopic Gastrostomy set with enteral nutrition requirement, as a mechanism that provides ease of use, prevents back leakage of nutrients and gastric contents, eliminates the risk of infection caused by the set inlet remaining open,
5 has a valve entrance and the feeding injector can provide nutrient input with direct pressure.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/TR2023/051736

A. CLASSIFICATION OF SUBJECT MATTER

A61B 17/34(2006.01)i; A61J 15/00(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)

A61B 17/34; A61J 15/00

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 practicable, search terms used)

EPODOC, TURKPATENT

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 2006028137 A1 (JMS CO LTD [JP]) 16 March 2006 (2006-03-16) Abstract, par.0004 - 0010	1
X	US 2010113880 A1 (PAGE CHARLES W [US]) 06 May 2010 (2010-05-06) Abstract, par.0005 - 0008	1
X	US 2002198440 A1 (SNOW TODD,) 26 December 2002 (2002-12-26) Abstract, par.0023 - 0025	1

 Further documents are listed in the continuation of Box C. See patent family annex.

* Special categories of cited documents:

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

“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

“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

“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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Patent document cited in search report			Publication date (day/month/year)	Patent family member(s)	Publication date (day/month/year)
WO	2006028137	A1	16 March 2006	JP WO2006028137 A1	08 May 2008
				JP 4930057 B2	09 May 2012

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US	2002198440	A1	26 December 2002	US 6673058 B2	06 January 2004
				WO 03000171 A1	03 January 2003
