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(54) Title (EN): DISPOSABLE TEMPERATURE AND PRESSURE MEASURING CATHETER

(54) Title (FR): CATHÉTER JETABLE DE MESURE DE TEMPÉRATURE ET DE PRESSION

(54) Title (ZH): 一次性测温测压导尿管

(57) Abstract:

(EN): A disposable temperature and pressure measuring catheter, comprising: a catheter body (10), a pressure sensor (43), and a three-way valve (20). The catheter body (10) is internally provided with: independent of one another, a urine guiding passage (13), a fluid injection and discharge passage (16) and a temperature sensor signal line (32). The front end of the catheter body (10) is provided with a urine guiding hole (11), and the rear end thereof is provided with a urine outlet (12); the urine guiding passage (13) is connected between the urine guiding hole (11) and the urine outlet (12). The pressure sensor (43) is fixedly encapsulated within a pressure sensor cavity at the rear end of the catheter body (10). A first port (21) of the three-way valve (20) is connected to the rear end of the fluid injection and discharge passage (16); a second port (22) is in communication with the pressure sensor cavity; and a third port (23) is a fluid injection and discharge port.

(FR): La présente invention concerne un cathéter jetable de mesure de température et de pression comprenant : un corps de cathéter (10), un capteur de pression (43), et une vanne à trois voies (20). Le corps de cathéter (10) comporte à l'intérieur : indépendamment l'un de l'autre, un passage de guidage d'urine (13), un passage d'injection et de décharge de fluide (16) et une ligne de signal de capteur de température (32). L'extrémité avant du corps de cathéter (10) est pourvue d'un trou de guidage d'urine (11), et son extrémité arrière est pourvue d'une sortie d'urine (12); le passage de guidage d'urine (13) est relié entre le trou de guidage d'urine (11) et la sortie d'urine (12). Le capteur de pression (43) est encapsulé de manière fixe à l'intérieur d'une cavité de capteur de pression à l'extrémité arrière du corps de cathéter (10). Un premier orifice (21) de la vanne à trois voies (20) est relié à l'extrémité arrière du passage d'injection et de décharge de fluide (16); un deuxième orifice (22) est en communication avec la cavité de capteur de pression; et un troisième orifice (23) est un orifice d'injection et de décharge de fluide.

(ZH): 一种一次性测温测压导尿管,包括:管体(10)、压力传感器(43)和三通阀(20)。管体(10)内设有相互独立的导尿通道(13)、流体注入排出通道(16)及温度传感器信号线(32)。管体(10)的前端设有导尿孔(11),后端设有排尿口(12),导尿通道

(13)连接在导尿孔(11)和排尿口(12)之间。压力传感器(43)固封在管体(10)的后端的压力传感器腔内。三通阀(20)的第一口(21)连接流体注入排出通道(16)的后端,第二口(22)连通压力传感器腔,第三口(23)为流体注入排出口。

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Declaration of inventorship (Rules 4.17(iv) and 51bis.1(a)(iv)) for the purposes of the designation of the United States of America