

Search strategy

Query

(INFUSION PUMP AND CASSETT+ AND (GASKET OR SEAL))/TI/AB/CLMS AND (A61M-005/142)/IPC/CPC

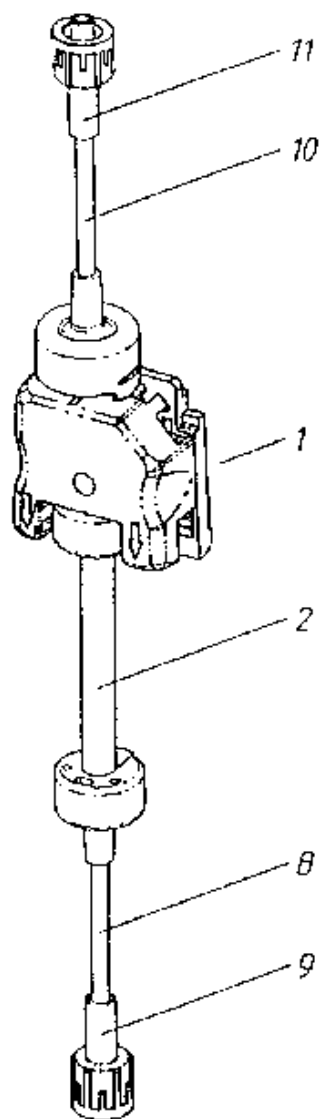
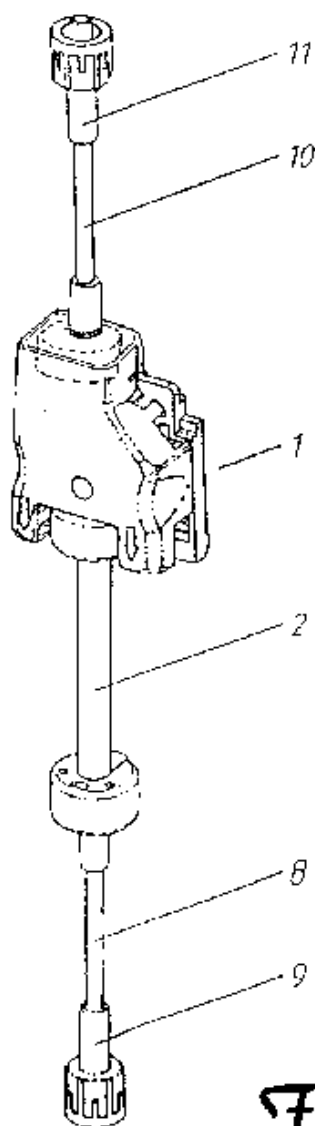
5 Documents

Publication numbers	Title	Current assignees
EP-836493 A1	Disposable cassette for connection to a liquid drug infusion pump	ROCHE DIAGNOSTICS INTERNATIONAL
EP3226933 A1	Pump cassettes with flow stop and infusion pump systems	CAREFUSION
EP2453949 A1	Cassette with infusion set containing anti-freeflow ball valve for peristaltic infusion pump	NESTEC
EP1383558 A2	Medical Infusion Cassette with Membrane	ICU MEDICAL
EP3402551 A1	Infusion device	INFUSION INNOVATIONS

Family 1/5 - FAMPAT - ©Questel

Title

(EP-836493)

Disposable **cassette** for connection to a liquid drug **infusion pump****Images***Fig. 1**Fig. 1A***Publication numbers with kind code & date**

US6106498	A	2000-08-22
DE69514256	T2	2000-07-13
DE69514256	D1	2000-02-03
AT188132	T	2000-01-15
EP0836493	B1	1999-12-29

US6106498
DE69514256
DE69514256
ATE188132
EP-836493



JPH11508465	A	1999-07-27	JP11508465
EP0836493	A1	1998-04-22	EP-836493
WO97/02059	A1	1997-01-23	WO9702059

**Abstract**

(EP0836493)

The disposable **cassette** for use with a liquid drug **infusion pump** comprises a **cassette** body (1) with a flexible pump tube (2) between an inlet (3) for connection to a drug reservoir on the upstream side and an outlet (4) for delivery of the drug to a medical patient on the downstream side; a pressure detector membrane (18) operatively connectable to said **infusion pump** having means to measure the pressure in the fluid circuit of the **cassette**; a passive valve (7) having a pre-stress producing a forward opening pressure of at least 0.15 bar; and an optical code (6) located on the **cassette** body (1) for recognition of the **cassette** by said **infusion pump**.

Inventors

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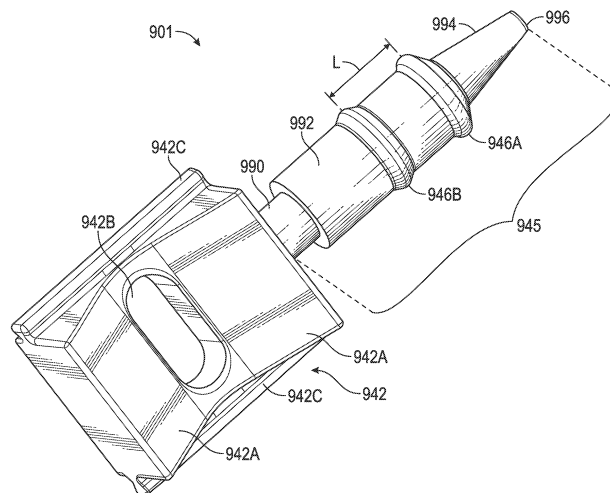
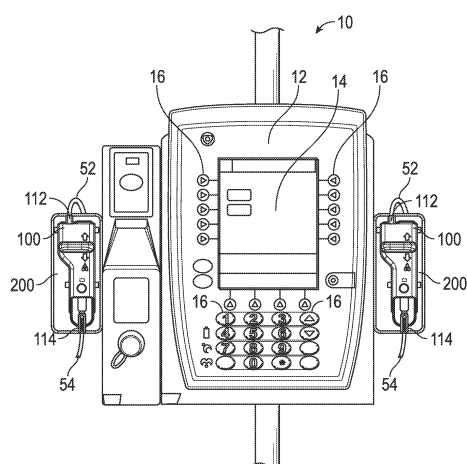
Latest standardized assignees - inventors removed

ROCHE DIAGNOSTICS INTERNATIONAL

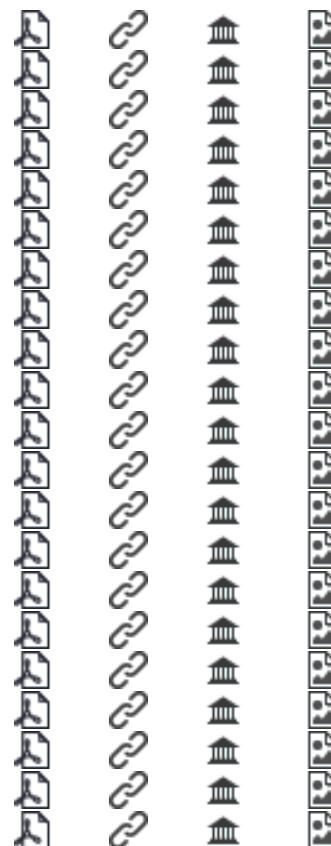
Family 2/5 - FAMPAT - ©Questel

Title

(EP3226933)

Pump **cassettes** with flow stop and **infusion pump** systems**Images****Publication numbers with kind code & date**

US10376639	B2	2019-08-13	US10376639
US10363360	B2	2019-07-30	US10363360
US10335541	B2	2019-07-02	US10335541
US10293102	B2	2019-05-21	US10293102
EP3226933	A4	2018-08-29	EP3226933
EP3226934	A4	2018-08-29	EP3226934
EP3226933	A1	2017-10-11	EP3226933
EP3226934	A1	2017-10-11	EP3226934
CN205729887	U	2016-11-30	CN205729887U
CN205379512	U	2016-07-13	CN205379512U
CN205371780	U	2016-07-06	CN205371780U
WO2016/089771	A1	2016-06-09	WO201689771
WO2016/089772	A1	2016-06-09	WO201689772
WO2016/089773	A1	2016-06-09	WO201689773
WO2016/089776	A1	2016-06-09	WO201689776
CN105641775	A	2016-06-08	CN105641775
US20160151560	A1	2016-06-02	US20160151560
US20160151562	A1	2016-06-02	US20160151562
US20160151564	A1	2016-06-02	US20160151564
US20160151566	A1	2016-06-02	US20160151566
CN205252208	U	2016-05-25	CN205252208U

**Abstract**

(EP3226933)

Pump **cassettes**, infusion systems, and methods are described. An example pump **cassette** may include a rigid body including two opposing edge sections, an inlet port, an outlet port, and a controllable fluid pathway extending from the inlet port to the outlet port. The pump may include a slider coupled to the two opposing edge sections and articulable with respect to the rigid body; and a flow stop valve operably coupled to the controllable fluid pathway.

Inventors

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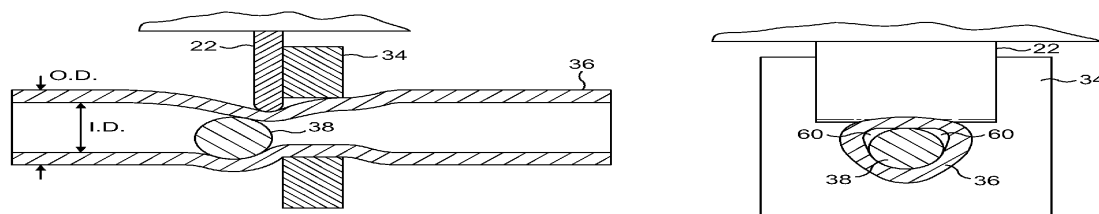
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CAREFUSION

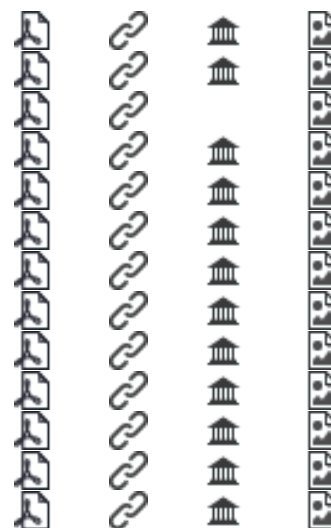
Family 3/5 - FAMPAT - ©Questel

Title

(EP2453949)

Cassette with infusion set containing anti-freeflow ball valve for peristaltic **infusion pump****Images****Publication numbers with kind code & date**

US9962483	B2	2018-05-08	US9962483
CA2767986	C	2018-04-17	CA2767986
HK1169065	A1	2018-01-05	HK1169065
ES2621464	T3	2017-07-04	ES2621464
DK2453949	T3	2017-04-10	DK2453949T
EP2453949	B1	2017-02-08	EP2453949
US20160346464	A1	2016-12-01	US20160346464
US9440022	B2	2016-09-13	US9440022
US20120266964	A1	2012-10-25	US20120266964
EP2453949	A1	2012-05-23	EP2453949
WO2011/008619	A8	2011-09-01	WO201108619
CA2767986	A1	2011-01-20	CA2767986
WO2011/008619	A1	2011-01-20	WO201108619

**Abstract**

(EP2453949)

Flow control devices and methods of using the flow control devices are provided. In a general embodiment, the present disclosure provides a **cassette** (30) comprising a housing (32) having a constrictor (34), a tube (36) attached to the housing and positioned through the constrictor, and a ball positioned inside the tube. The constrictor can be constructed and arranged to prevent the ball (38) from moving through the tube at the location proximate the constrictor. The ball can prevent fluid flow in one position and be dislodged to allow fluid flow when the **cassette** is positioned inside a pumping device. As a result, the **cassette** is designed to prevent free flow of fluid when an enteral feeding tube set is not installed in a pumping device.

Inventors

WEST DAVID WOODRUFF

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HARIHARESAN SERALAATHAN

HALBERT ALAN P

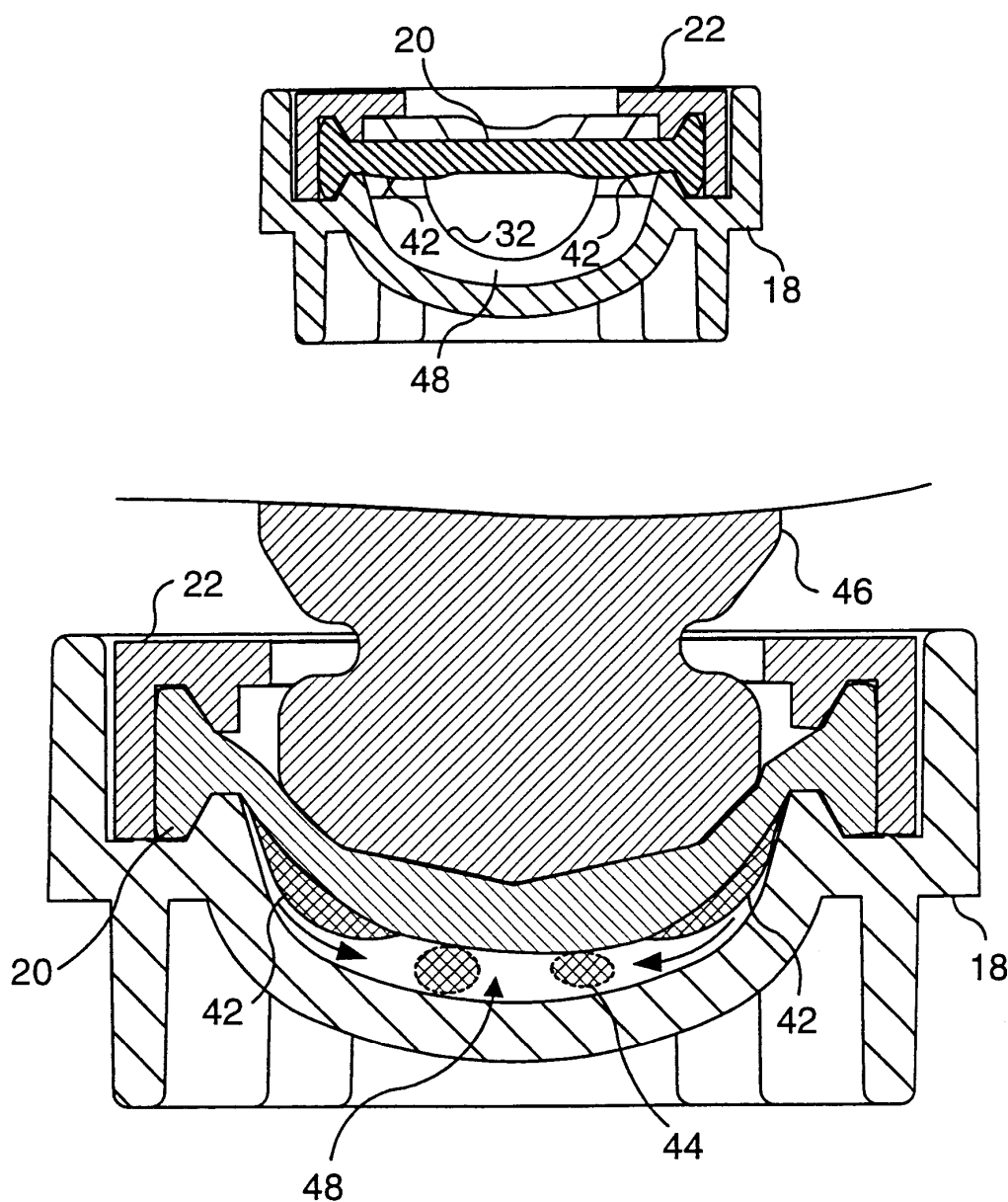
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NESTEC

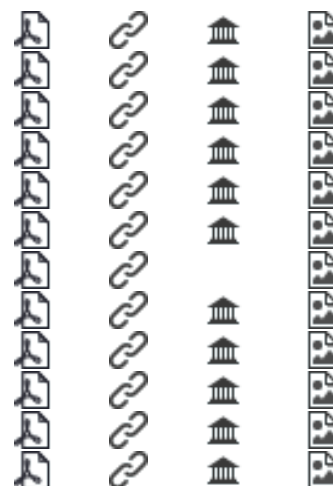
Family 4/5 - FAMPAT - ©Questel

Title

(EP1383558)

Medical Infusion **Cassette** with Membrane**Images****Publication numbers with kind code & date**

CA2683199	C	2012-12-18	CA2683199
CA2683201	C	2012-05-22	CA2683201
CA2683203	C	2012-05-22	CA2683203
CA2445585	C	2010-01-19	CA2445585
ES2327717	T3	2009-11-03	ES2327717
DE60232869	D1	2009-08-20	DE60232869
AT435671	T	2009-07-15	ATE435671
EP1383558	B1	2009-07-08	EP1383558
JP4212899	B2	2008-11-07	JP4212899
AU2002248586	B2	2006-02-02	AU2002248586
JP2005509457	A	2005-04-14	JP2005509457
EP1383558	A2	2004-01-28	EP1383558



WO02/87664	A3	2003-03-27	WO200287664				
US6494694	B2	2002-12-17	US6494694				
CA2445585	A1	2002-11-07	CA2445585				
CA2683199	A1	2002-11-07	CA2683199				
CA2683201	A1	2002-11-07	CA2683201				
CA2683203	A1	2002-11-07	CA2683203				
WO02/87664	A2	2002-11-07	WO200287664				
US20020159900	A1	2002-10-31	US20020159900				

Abstract

(EP1383558)

A disposable **cassette** for use with a medical **infusion pump**. An elastomeric membrane is captured between a facing member and a base of the **cassette** and is displaced into a pumping chamber. The elastomeric membrane includes a generally T-shaped lip, and corresponding grooves are provided on the facing member and base. As the **cassette** is assembled, an interference fit between the lip and the grooves causes the membrane to stretch taut and to be securely anchored, eliminating a break-in period when the **cassette** is initially used. "Lobes" of increased thickness provided on the undersurface of a portion of the elastomeric membrane overlying the pumping chamber reduce the residual volume of the pumping chamber, thereby reducing the volume of air retained within the chamber and increasing the accuracy of the **cassette**. The lobes also sweep air bubbles from the sides of the pumping chamber during operation, further reducing air bubbles retained in the pumping chamber. A distal tube support retains a distal fluid line between air or pressure sensors included on a pump drive mechanism, thus reducing the likelihood of sensing errors. Inlet and outlet valve flaps and corresponding seating surfaces included in the base are configured to provide quieter operation, further reduce the residual volume of the pumping chamber, increase fluid velocity through the outlet valve to sweep air bubbles from the pumping chamber, and protect against a "blown" inlet valve.

Inventors

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Latest standardized assignees - inventors removed

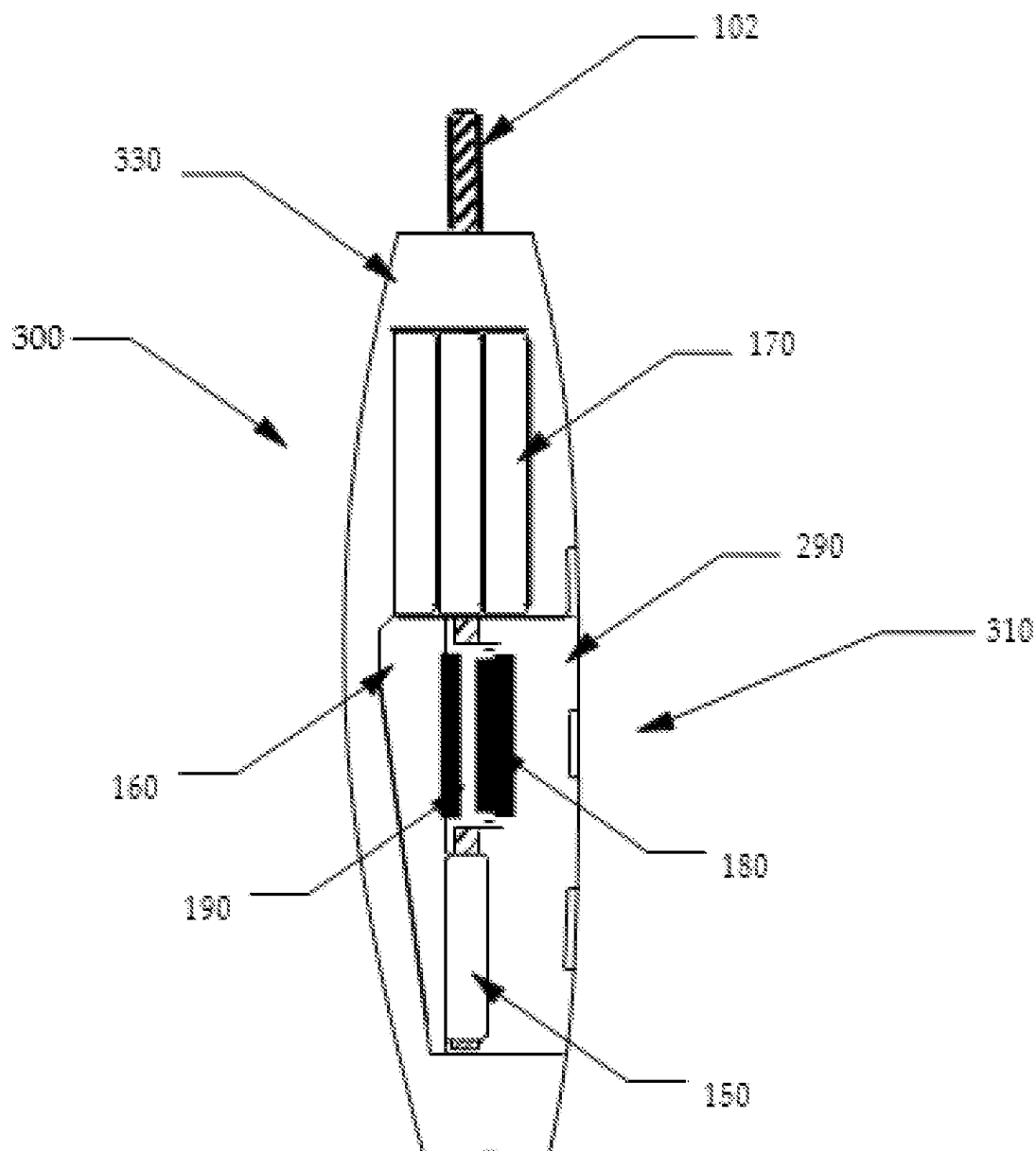
ICU MEDICAL

Family 5/5 - FAMPAT - ©Questel

Title

(EP3402551)

Infusion device

Images**Publication numbers with kind code & date**

EP3402551	A4	2019-10-23	EP3402551
EP3402551	A1	2018-11-21	EP3402551
US20180318497	A1	2018-11-08	US20180318497
KR20180111843	A	2018-10-11	KR20180111843
CN108601891	A	2018-09-28	CN108601891
AU2017207518	A1	2018-08-30	AU2017207518
SG11201805935P	A	2018-08-30	SG11201805935P
CA3011338	A1	2017-07-20	CA3011338
WO2017/120639	A1	2017-07-20	WO2017120639

**Abstract**

(EP3402551)

The invention relates to portable devices for transferring fluids from an external source and controllably infusing the fluids into a patient, particularly portable **infusion pump** devices, and protective housings for such devices. Devices comprise a pump unit, a computer, a portable fuel source, and a sealing means for securing the contents substantially within the protective housings of the device. Devices may be formed as a single **infusion pump** unit or may be formed when two **infusion pump** units are engaged. The invention also relates to methods of use of portable devices and method for the manufacture of portable devices and protective housings for such devices.

Inventors

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Latest standardized assignees - inventors removed

INFUSION INNOVATIONS