

# Wiki section

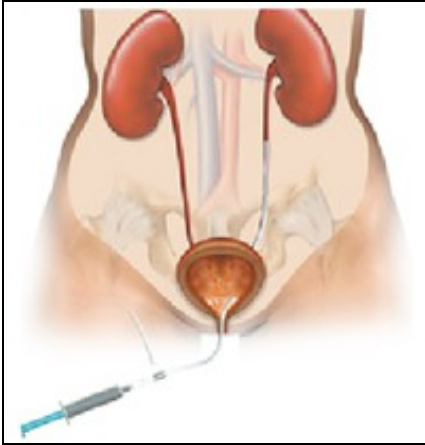
This is a landscape report on the Ureteral stent market, including key company profiles, products, patents and relevant clinical trails.

- **What is it?** A ureteral stent is a specially designed hollow tube, made of a flexible plastic material that is placed in the ureter.
- **Need for a ureteral stent:** In patients who have, or might have, an obstruction (blockage) of the kidney, an internal drainage tube called a stent is commonly placed in the ureter, the tube between the kidney and the bladder. This is placed there in order to prevent or temporarily relieve the obstruction.

## Contents

- 1 Background
- 2 Market Overview
- 3 Interactive Mind Map
- 4 Patents
  - ◆ 4.1 Patent Search Strategy
  - ◆ 4.2 Dolcera Dashboard
  - ◆ 4.3 Patent Heat Map
- 5 Clinical Trials
  - ◆ 5.1 New trials
  - ◆ 5.2 Concluded trials
  - ◆ 5.3 Adverse Events
  - ◆ 5.4 Pre-Market Notification
  - ◆ 5.5 Timeline Visualization
- 6 Products
- 7 Patent-Product-Clinical Trial Mapping
- 8 Product to Patent Mapping
- 9 Concordance Dashboard
- 10 Insights
  - ◆ 10.1 Inferences
- 11 Competitive landscape
  - ◆ 11.1 Boston Scientific
  - ◆ 11.2 CR BARD
  - ◆ 11.3 Cook Medical
  - ◆ 11.4 Medline
- 12 Like this report?
- 13 Backup

## Background



### Ureteric Stent

Ureteral stents are used in urological surgery to maintain patency of the ureter to allow urine drainage from the renal pelvis to the bladder. These devices can be placed by a number of different endourological techniques. They are typically inserted through a cystoscope and may also be inserted intraoperatively. Indwelling ureteral stents help to reduce complications and morbidity subsequent to urological and surgical procedures. Frequently, ureteral stents are used to facilitate drainage in conjunction with Extracorporeal Shock Wave Lithotripsy (ESWL) and after endoscopic procedures. They are also used to internally support anastomoses and prevent urine leakage after surgery. Ureteral stenting may almost eliminate the urological complications of renal transplantation. An antimicrobial ureteral stent, which inhibits encrustation and bacterial colonization while maintaining patient comfort.

- Ureteral stent: resists migration, resists fragmentation, is kink resistant and radiopaque.
- Bacterial colonization: antimicrobial activity for up to two weeks.
- Patient Comfort: stent has a low coefficient of friction (value) for ease of insertion and will soften on implant at body temperature to maintain patient comfort.

[more on background...](#)

## Market Overview

Market for ureteral stent can be analyzed by estimating market for each of Ureteral Stent's fundamental use. Other uses of Ureteral Stent include Post-surgical swelling/infection of uterus, Active kidney infection etc.

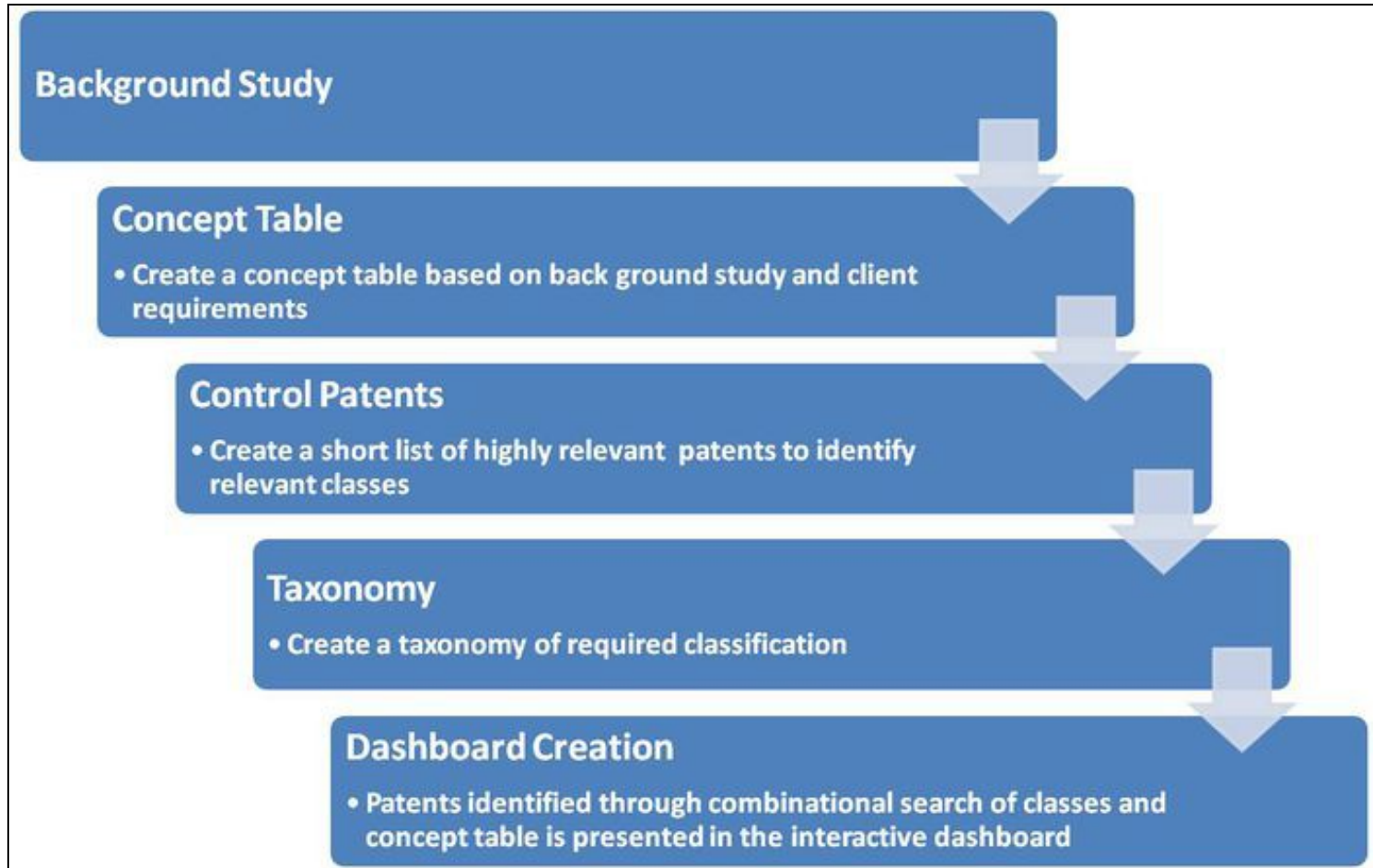
[more on market overview...](#)

## Interactive Mind Map

- To access the Dashboard you have to signup. You can do so by clicking [here](#)
- Use the mouse(click and drag/scroll up or down/click on nodes) to explore nodes in the detailed taxonomy
- Click on the red arrow adjacent to the node name to view the content for that particular node in the dashboard
- Click on the "+" sign to zoom the mindmap and "-" sign to shrink the mindmap

## Patents

### Patent Search Strategy



### Dolcera Dashboard

**Data Filters**

- Doubly fed induction generator
  - Method/ algorithm/ Program
  - Parts (83)
    - Stator (69)
    - Rotor (73)
      - Rotor construction (69)
      - Rotor current control
      - Rotor angular position
    - Shaft (7)
    - Slip ring and brushes
    - Brushless (8)
  - Converter (98)
  - DC link (32)
  - Operation (28)
  - Control (120)
  - Filter (7)
  - Protection (25)
  - Energy storage (3)

**Information**

Patent Charts Patents Articles

**Different Views**

**Export Selected Data**

**Multi Level Classification**

**Assignees**

**Document PDF**

**Claims:**

**Abstract:**

Publication	Title	Assignee	Pub	Ap
US6448735B1	Controller for a wound rotor slip ring induction machine	Abb Research	2002	20
US20050189896A1	Method for controlling doubly-fed machine	Abb Research	2005	20
WO2007027141A1	Wind mill power flow control with dump load and power converter	Abb Research	2007	20
US20070114978A1	System for transmission of electric power	Abb Research	2007	20
US20090273187A1	Control method	Abb Research	2009	20
US20100085783A1	Method and system to influence the power generation of an adjustable speed generator	Abb Research	2010	20
US20090273187A1	Systems and methods for synchronous speed avoidance in doubly-fed induction generators	Acciona Windp	2009	20
US20090273187A1	Dc voltage regulator	Acciona Windp	2009	20
US20100002475A1	Wind turbine control system and method	Acciona Windp	2010	20
US20100002475A1	Low voltage ride through	American Supe	2010	20
WO2010002402A1	Low voltage ride through	American Supe	2010	20
GB2410386A	Control method for a doubly-fed induction generator	Areva T & D Uk	2005	20
GB2411252A	Control method for a doubly-fed induction generator having varying speed	Areva T & D Uk	2005	20
GB2420456A	Generator control having grid imbalance detector	Areva T & D Uk	2006	20
US20100013343A1	Constant frequency and locked phase generator adaptable to variable torque	Beijing Institut	2010	20
US20090273187A1	Method for operating a wind energy plant	Dewind Gmbh	2009	20
US20090273187A1	Brushless doubly-fed induction machines employing dual cage rotors	Dual Stator Te	2009	20
US20030052643A1	Brushless doubly-fed induction machine control	Dual Stator Te	2003	20
US20060192390A1	Control and protection of a doubly-fed induction generator system	Gamesa Innov	2006	20
US20090021013A1	Wind power system and method of operating it	Gamesa Innov	2009	20
US20090302608A1	Wind power installation and method of modifying the blade pitch in a wind power installation	Gamesa Innov	2009	20
EP1508951A1	Continuous reactive power support for wind turbine generator	Gen Electric	2005	20

**US6448735B1**  
**Controller for a wound rotor slip ring induction machine**  
 US Class (primary): 318700  
 IPC Class (primary): H02P02705

**Abstract:**  
 The direct torque control (DTC) principle is used to control the torque of a

**Claims:**  
 1. A method for controlling the torque and power factor of a doubly fed machine using direct torque control, comprising the steps of: (a) calculating the estimated torque of said machine; (b) determining a torque error from said estimated torque and a reference torque; (c) calculating the desired rotor flux command  $\Psi_{r\_ref}$ ; (d) calculating the actual rotor flux  $\Psi_r$ ; (e) converting said actual rotor flux from the stator reference frame to the rotor reference frame by multiplying  $\Psi_r$  by  $e^{-j\theta}$

### Dashboard Link

[Ureteral Stent - Dashboard](#)



- Flash Player is essential to view the Dolcera Dashboard
- To access the Dashboard you have to signup. You can do so by clicking [here](#)

### Patent Heat Map

This is supposed to be a flash animation. You'll need the flash plugin and a browser that supports it to view it.

[more on patent analysis...](#)

### Clinical Trials

#### New trials

Rank	Study Title	Condition	Intervention	Institution
1	Assessment of Drug-Eluting Ureteral Stent on Bacterial Adherence and Biofilm Formation	Renal Calculi, Ureteral Obstruction	Ureteral Stent	Lawson Health Research Institute, Boston Scientific Corporation
2	Memokath® 044TW Stent for Treatment of Urethral Stricture	Urethral Stricture	Memokath stenting	Engineers & Doctors Wallsten Medical Group
3	Study to Determine if There Are Specific Clinical Factors to Determine Stent Encrustation	Kidney Stones	N/A	University of California, Irvine
4	Ureteral Stent Length and Patient Symptoms	Kidney Stones	Ureteral Stent	Emory University
5	Drainage of Malignant Extrinsic Ureteral Obstruction Using the Memokath Ureteral Stent	Ureteral Obstruction	Memokath 051 Ureteral Stent	Mayo Clinic Engineers & Doctors Wallsten Medical Group
6	A Prospective Comparison Between Ureteral Stent and Nephrostomy Tube for an Urgent Drainage of Obstructed Kidney (JJVsPCN08)	Kidney Disease	Nephrostomy tube and ureteral stent	Rabin Medical Center

## Concluded trials

1	Long-term outcome of permanent urethral stents in the treatment of detrusor-sphincter dyssynergia	To evaluate the long-term efficacy of a permanently implanted urethral stent in the treatment of spinally injured patients with detrusor-sphincter dyssynergia.	13	Detrusor-sphincter dyssynergia	Stenting is an effective alternative to sphincterotomy in the long-term, although secondary bladder neck obstruction is a frequent problem.
2	Nephrostomy Tube or 'JJ' Ureteric Stent in Ureteric Obstruction: Assessment of Patient Perspectives Using Quality-of-Life Survey and Utility Analysis	Upper urinary tract obstruction is often relieved by either a percutaneous nephrostomy tube (PCN) or a ureteric stent. Both can cause considerable morbidity and reduce patient's health-related quality of life (QoL). We have compared the QoL in these 2 groups.	34	Upper urinary tract obstruction	Patients with 'JJ' stents have significantly more irritative urinary symptoms and a high chance of local discomfort than patients with nephrostomy tubes (PCN). However, based on the EuroQoL analysis, there is no significant difference in the gross impact on the health-related QoL or the utility between these groups indicating no patient preference for either modality of treatment.
3	Impact of stents on urological complications and health care expenditure in renal transplant recipients: results of a prospective, randomized clinical trial.	A randomized, prospective trial to compare the incidence of early urological complications and health care expenditures in renal transplant recipients with or without ureteral stenting.	201	Renal transplant recipient	Using a ureteral stent at renal transplantation significantly decreases the early urinary complications of urine leakage and obstruction. However, there is a significant increase in urinary tract infections, primarily beyond 30 days after transplantation. Stent removal within 4 weeks of insertion appears advisable.

## Adverse Events

S.No.	Brand Name	Adverse Event	Date FDA Received
1	<a href="#">Cook Urologicals Cook Urological Stent</a>	Stent broke into pieces while removing it from the patients body.	12/14/2005
2	<a href="#">Boston Scientific Boston Scientific Ureteral stent System</a>	Fractured stent seen under Fluroscopy	10/17/2007
3	<a href="#">Boston Scientific Boston Scientific Ureteral Stent System Kit 8 FR X 24 CM</a>	During insertion of ureteral stent, the stent broke into multiple parts which were retained in the patient.	10/14/2005
4	<a href="#">Boston Scientific Corp Boston Scientific 8 FR X 28 CM Ureteral Stent System Kit</a>	Breakage of the upper loop of the ureteral stent while trying to insert it.	01/05/2005
5	<a href="#">Boston Scientific Boston Scientific Micro Vasive Contour VL Ureteral Stent</a>	Broken stent observed during x-ray procedure.	12/12/2003

## Pre-Market Notification

Section 510(k) of the Food, Drug and Cosmetic Act requires device manufacturers who must register, to notify FDA of their intent to market a medical device at least 90 days in advance, also known as Premarket Notification. This premarket submission demonstrates to the FDA that the device to be marketed is atleast as safe and effective, that is, *substantially equivalent*, to a legally marketed device. Parties required to submit a 510(k) to the FDA include domestic or foreign manufacturers introducing a device to the U.S. market, as well as specification developers and repackers/relabelers.






A 510(k) is required when:

- Introducing a device into commercial distribution (marketing) for the first time.
- Proposed different intended use for a device already in commercial distribution.
- Change or modification of a legally marketed device.

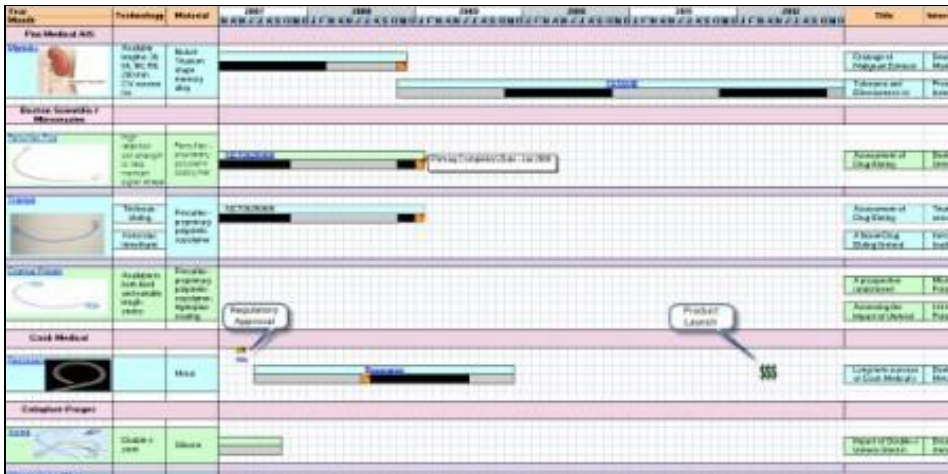
### 510(k) ?Substantial Equivalence? Decision Making Process

Some of the companies active in the field of ureteral stents have been represented in the table below.

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1	Bard Urological	 InLay Optima	FDA 510(k)	Dec 2004	Silicone	Double pigtail with monofilament suture loop	365
2	Boston Scientific	 Polaris Loop	FDA 510(k)	Mar 2003	Dual Durometer Percuflex with HydroPlus Coating	Bladder loop design	365
3	Cook Medical	 Resonance	FDA 510(k)	May 2007	Metal	Temporary stenting	365
4	Fossa Medical	 Stone Sweeper	FDA 510(k)	Aug 2002	Polyurethane	Spiral radially expanding stent	13
			CE Mark	Sep 2005			
5	Pnn Medical A/S	 Memokath 051	CE Mark	1995	Nickel-titanium shape memory alloy	Double fluted ended spiral stent	240

### Timeline Visualization







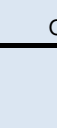



Ureteral Stent Timeline









### Products


The FDA classifies a ureteric stent as follows:

- TITLE 21 - FOOD AND DRUGS
- CHAPTER I - FOOD AND DRUG ADMINISTRATION DEPARTMENT OF HEALTH AND HUMAN SERVICES

- SUBCHAPTER H - MEDICAL DEVICES
- PART 876 - GASTROENTEROLOGY-UROLOGY DEVICES
- Subpart E - Surgical Devices
- Sec. 876.4620 - Ureteral stent.
- Classification - class II device [Code of Federal Regulations](#)









Sr. No.	Company	Device(s)	Approval	Approval Date	Material	Technology	Indwelling Time (days)	
1	<a href="#">Allium, Israel</a>	URS	CE Mark	Jul, 2007	Nickel-titanium shape memory alloy covered by polymer	Self-expanding stent		
2	Pnn Medical A/S	Memokath 051	CE Mark	1995	Nickel-titanium shape memory alloy	Double fluted ended spiral stent	240	
			<a href="#">FDA Listing</a>	Mar, 2004				
3	<a href="#">Fossa Medical</a>	Stone Sweeper	CE Mark	Sep, 2005	Polyurethane	Radially expanding stent	13	
			<a href="#">FDA 510(k)</a>	Aug, 2002				
		Open lumen stent	<a href="#">FDA 510(k)</a>	Nov, 2003	Polyurethane	Pigtail-tipped stent with ?Pusher?		
			CE Mark	Sep, 2005				
Expanding Ureteral Stent	<a href="#">FDA 510(k)</a>	Jun, 2002	Polyurethane	Double pigtail stent with ?Pusher?				
4	<a href="#">Boston Scientific</a>	<a href="#">Contour</a>			Percuflex - proprietary polyolefin copolymer; Hydroplus coating	Fixed and variable length; Tapered tip	365	
		<a href="#">Percuflex</a>			Percuflex	Pigtail	365	
		<a href="#">Polaris Ultra</a>	<a href="#">FDA 510(k)</a>	Jan, 2001	Dual Durometer Percuflex with HydroPlus Coating; soft Nautilus Bladder Coil.	Double pigtail	365	

		<a href="#">Polaris Loop</a>	<a href="#">FDA 510(k)</a>	Mar, 2003	Dual Durometer Percuflex with HydroPlus Coating	Bladder loop design	365	
		<a href="#">Retromax Plus</a>			Percuflex material and Hydroplus coating	Endopyelotomy stent	Post-procedure healing	
		<a href="#">Stretch VL Flexima</a>			Hydroplus Coating	Variable length coil on distal and proximal ends	90	
		<a href="#">Drug-Eluting Stent</a>			Percuflex - proprietary polyolefin copolymer	Ketorolac trimethamine loaded stent		
5	Cook Medical	<a href="#">Resonance</a>	<a href="#">FDA 510(k)</a>	May, 2007	Metal		365	
		<a href="#">Sof-flex</a>			AQ® Hydrophilic Coating	Radiopaque tip and tether for repositioning	180	
		<a href="#">Endo-Sof</a>			AQ® Hydrophilic Coating	Double pigtail	365	
		<a href="#">C-Flex</a>				Double Pigtail	180	

		<a href="#">Smith Universal</a>				Nephrostomy tube + Ureteral stent	60	
		<a href="#">Endo-Sof Radiance</a>	<a href="#">Launch</a>	Dec, 2007		Heparin-bonded stent		
6	Q Urological	<a href="#">pAquaMedicina? Pediatric Ureteral Stent</a>	<a href="#">FDA 510(k)</a>	Jan, 2010		Hydrogel	Differentially larger end (no pigtail)	30
7	Bioteque Corp.	Ureteral Stent Set	<a href="#">FDA 510(k)</a>	Apr, 2010				30
8	Applied Medical Resources, CA, USA	<a href="#">Mesh</a>	<a href="#">FDA 510(k)</a>	Jul, 2001		Polyester mesh	Double-pigtail	
		<a href="#">Silhouette</a>				Coil-reinforced; SL-6® hydrophilic coating	Patency Device	
		<a href="#">Applied Standard</a>	<a href="#">FDA 510(k)</a>	Jun, 1999		Proprietary thermoplastic elastomer material; SL-6® hydrophilic coating	Unique wall construction and enlarged drainage holes	
		<a href="#">7-10 endopyelotomy</a>				Proprietary thermoplastic elastomer material; SL-6® hydrophilic coating	Dual Diameter stent	
		<a href="#">InLay Optima</a>	<a href="#">FDA 510(k)</a>	Dec, 2004		Silicone	Double pigtail with monofilament suture loop	365

		<a href="#">Bardex® Double Pigtail Soft Stent</a>	<a href="#">FDA 510(k)</a>	Jan, 2003	Silicone	Attached with suture for ease of removal
		<a href="#">Fluoro-4 Silicone Ureteral Stent</a>			Silicone/tantalum	
		<a href="#">Figure-4 Silicone Ureteral Stent</a>			Silicone	Three dimensional design
		<a href="#">InLay Ureteral Stent</a>	<a href="#">FDA 510(k)</a>	Dec, 1998	Silicone	Tapered tip and lubricious hydrophilic coating
		<a href="#">Urinary Diversion Stent</a>	<a href="#">FDA 510(k)</a>	Apr, 1991	Silicone	
10	Coloplast-Porges	<a href="#">Vortek</a>	<a href="#">FDA 510(k)</a>	Oct, 1998	Silicone	Double coating for easy maneuverability as well as flexibility
		<a href="#">Biosoft</a>	<a href="#">FDA 510(k)</a>	Oct, 1998	Silicone	Extreme flexibility



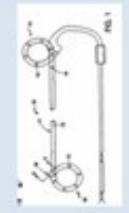



		<u>Polyurethane</u>			Hard or soft Polyurethane	Designed for short-term use	90	
		<u>Silicone</u>	<u>FDA 510(k)</u>	Oct, 2002	Silicone	<i>Pyatiprofilnaya</i> technology		
11	Teleflex Medical	<u>Rüsch Superglide DD</u>	<u>FDA 510(k)</u>	Jul, 1999	WIRUTHAN® (polyurethane) with hydrogel coating	Directable and detachable		
		<u>Classic closed-tip</u>	<u>FDA 510(k)</u>	Dec, 1986		Classic Closed Tip		
		<u>Classic Double pigtail</u>	<u>FDA 510(k)</u>	Mar, 1996	Tecoflex® construction	Balanced-curved double pigtail design		
		<u>Double-J</u>	<u>FDA 510(k)</u>	Apr, 1988	Silicone	Double-J closed-tip		
		<u>Lithostent</u>				Tecoflex® Grooved design		
12	Gyrus ACMI/Cabot/Acromed/Circon/Surgitek							

		<a href="#">Lubri-flex</a>	<a href="#">FDA 510(k)</a>	Nov, 1991	Tecoflex®	?Rememberance? of shape with a chemically bonded wetttable solution	
		<a href="#">Multi-flex</a>			Tecoflex®	Two durometers with helical kidney curls	
		<a href="#">Quadra-Coil multi-length</a>	<a href="#">FDA 510(k)</a>	Mar, 1996	Tecoflex®	Accomodate ureteral lengths from 22cm to 28cm	
		<a href="#">Sof-curl</a>			Tecoflex®	Dual-durometer design and exclusive soft bladder helix	
		<a href="#">Uroguide</a>			Silicone	Classic Double J with open tip	
13	Ameco Medical Industries	Amecath			Nitinol; Available with hydrophilic coating	Double loop stent	Short-term and long-term
14	Angiomed-Movaco (C.R. Bard subsidiary)	Ureteral Stent Set	<a href="#">FDA 510(k)</a>	Jan, 1987	Nitinol	Self-expanding stent	

# Patent-Product-Clinical Trial Mapping

- To access the Dashboard you have to signup. You can do so by clicking [here](#)
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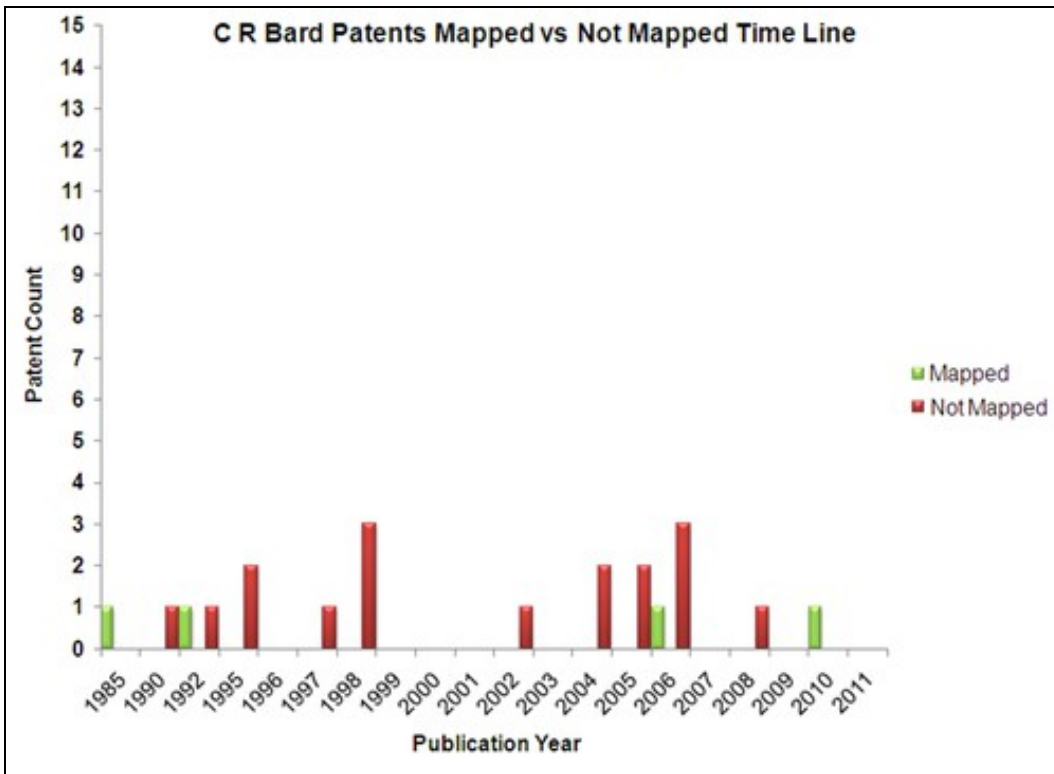
## Product to Patent Mapping

S. No	Company	Product	Patent no.	Date of Publication	Assignee/Applicant	Title	Patent Figure
1	<a href="#">Boston Scientific</a>	<a href="#">Percuflex® Ureteral Stent</a>	<a href="#">US5401257</a>	3/28/1995	Boston Scientific	Ureteral Stents, Drainage Tubes and the like	
2	<a href="#">Boston Scientific</a>	<a href="#">Percuflex® Plus Ureteral Stent</a>	<a href="#">US6719804</a>	4/13/2004	Boston Scientific	Medical Stent and Related Methods	
3	<a href="#">Boston Scientific</a>	<a href="#">Polaris Ultra stent</a>	<a href="#">US6719804</a>	4/13/2004	Boston Scientific	Medical Stent and Related Methods	
4	<a href="#">Boston Scientific</a>	<a href="#">Polaris™ Loop Ureteral Stent</a>	<a href="#">US6991614</a>	1/31/2006	Boston Scientific	Ureteral Stent for Improved Patient Comfort	

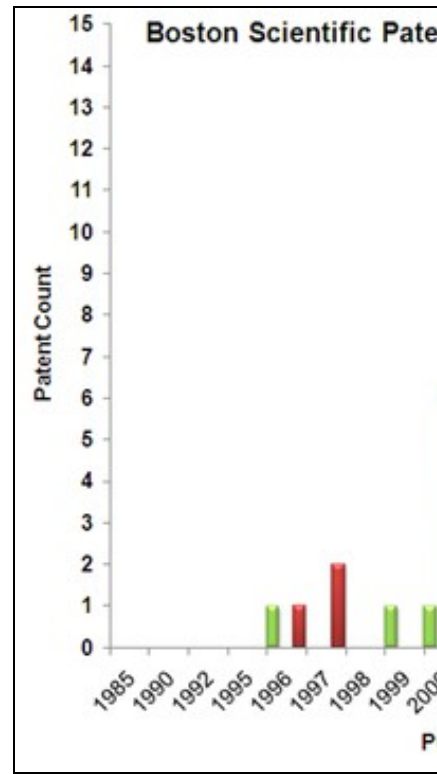


Screenshot for the product to patent mapping(Bard and Boston)

- Click [here](#) to download the excel file.
- Mapped Patent vs Not Mapped Patents



C R Bard



Boston Scientific

### Concordance Dashboard

PMA Num	Product Name	Company	Received	Decision
#821423	BARDEX Double Pigtail Soft Stent	C. R. Bard	4/22/1996	5/15/1996
#000001	Figure 4 Silicone Ureteral Stent	C. R. Bard	4/22/1996	5/15/1996
#000002	FLUORO-4 Silicone Ureteral Stent	C. R. Bard	4/22/1996	
#043193	INLAY OPTIMA Ureteral Stent	C. R. Bard	11/18/2004	12/7/2004
#001498	INLAY Ureteral Stent	C. R. Bard	10/5/1998	12/15/1998
#000003	Urinary Diversion Stent	C. R. Bard	4/22/1996	

Trial ID	Title	Sponsors	Received
NC:0000001	A prospective randomized single-blind comparison of ureteral stents composed of firm and soft polymer.	Norfolk and Norwich University Hospital	12/1/2005

Concordance Dashboard

### Insights

		Boston Scientific	C R BARD
Products	Portfolio	8 Products	6 Products
	Material	Percuflex - Biocompatible Polymer	Silicone
	Coating	Hydroplus	Licensed from pHrecoat

	<b>Shape</b>	Pigtailed and More	Figure 4 and more
<b>Clinical Trials</b>	<b>Current Trials</b>	Triumph Ureteral stent - Loaded with Triclosan Currently in Phase II (Canada)	None
<b>Patents</b>	<b>Coating</b>	Therapeutic / Medicinal coatings Magnetic nano particles for MRI Imaging Lubricious coatings helping easy insertion	Therapeutic coatings
	<b>Structure</b>	Multiple channels filled with therapeutic agent Multiple collapsible segments preventing fluid passing Renal coil with wick to prevent reflux Stent with beads on its surface Stent with reservoir indicating its release with change in color of urine Expandable and collapsible stent Stents with degradable barbs	Expandable stents for reducing discomfort
	<b>Material</b>	Elastically deformable stents Biodegradable polymer based stents Porous polymer for long term implantation Stent with variable hardness	Biodegradable polymers Shape memory alloys General polymer based

## Inferences

<b>Boston Scientific</b>	<b>C R BARD</b>
Relatively late entrant with patents filed post mid 90s	Early mover with patents filed in mid 80s
Increased patent activity since 2000	Patent activity never gained traction
Large number of patents yet to be "productized"	Few patents yet to be "productized"
Some products undergoing clinical trails	No products undergoing clinical trails
Diverse range of products with variation in material and structure	Small product portfolio
Seem to be strengthening they market position	Seem to be moving focus away from Ureteral stents market

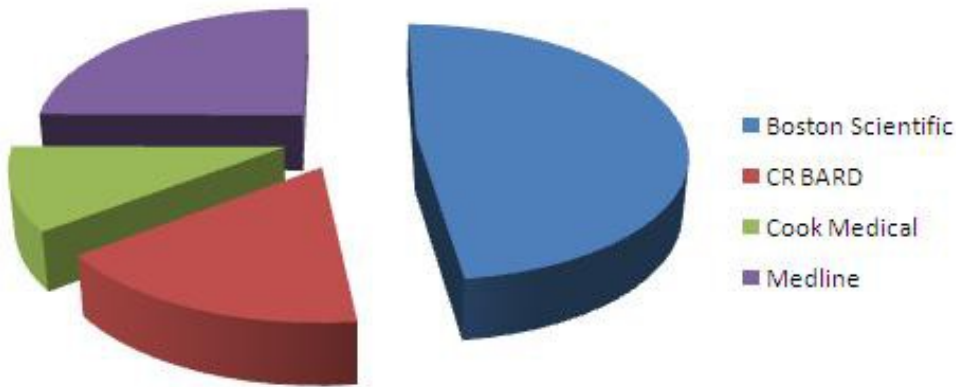
## Competitive landscape

Total Sales in 2010 - 4.04 Billion USD

<b>Company</b>	<b>Total Sales in 2010</b>	<b>Urological sales</b>	<b>Percentage share</b>	<b>Product portfolio</b>
<b>Boston Scientific</b>	7800	661	8.48	<a href="#">Boston portfolio</a>
<b>CR BARD</b>	2700	702	26.00	<a href="#">BARD portfolio</a>
<b>Cook Medical</b>	1700	-	-	<a href="#">Cook portfolio</a>
<b>Medline</b>	4040	-	-	<a href="#">Medline portfolio</a>

All figures in USD million

## Sales in 2010



### Boston Scientific

[Company profile](#)

[Ureteral Stent portfolio](#)

Net sales in 2010 ? USD 7.8 Billion

Share of Urology- 8.48 %

Net sales from Urology- USD 661 Million

Source [BSsalesdata](#)

### CR BARD

[Urology portfolio](#)

Net sales in 2010 ? USD 2.7 Billion

Share of Urology- 26%

Net sales from Urology- USD 702 Million

Source ? CR BARD annual report

### Cook Medical

[Ureteral Stent portfolio](#)

Total Sales - USD 1.7 Billion

Source

### Medline

[Ureteral Stent Portfolio](#)

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## Backup