

Impact of IPC Reform on Delphion, PatentWeb and Aureka

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The International Patent Classification system provides a single scheme to organize and access the world's patent literature. The revision of this system has far-reaching implications for patent information users and providers. In this article, we review the impact of the reformed IPC on searching the Thomson Scientific full-text patent systems: Delphion[®], PatentWeb[®] and Aureka[®].

Introduction

The most sweeping change in the history of the International Patent Classification system is upon us, and Thomson Scientific has worked to ensure a smooth transition. The new version of the IPC, referred to either as IPC 8th Edition (IPC 8) or IPC Reform (IPC R), is based on the existing IPC 7th Edition (IPC 7) with many codes from IPC 7 transferring directly into the new version. However, there are also many deletions, modifications and additions to the codes that users need to be aware of. Additionally, two levels of code have been created (Core and Advanced) with codes being applied for new (invention) and additional (non-invention) features of an invention. Full details of the changes are given in the article *Impact of IPC reform on patent information users and providers*¹ or at the Esp@ceNet web-site.

This article reviews the impacts of IPC Reform on searching Thomson Scientific's full-text patent systems, *Delphion*, *PatentWeb* and *Aureka*.

Delphion

The following changes to enable searching of the new IPC Reform (IPC R) data were made on *Delphion* during the first week of January:

- **Alerts & Saved Searches:** Alerts will run as normal, and any queries that search in the "IC" field now also search the new IPC R data. However, because significant code changes have been made in IPC R, you should review and adjust your code selections in Alerts and Saved Searches. Full details of the new IPC R codes are available at the WIPO website at <http://www.wipo.int/classifications/ipc/ipc8/?lang=en>
- **Boolean Search Form:** The "IPC Code - Any" field will now search both IPC 7 and IPC R data. The "IPC Code - Main" field is now called "IPC Code - Invention/Main" and searches IPC 7 Main and IPC R Invention codes.
- **Advanced Search Form:** The "IPC Code" field will now search both IPC 7 and IPC R data, but also includes the option to take advantage of new attributes available in IPC R.

- Result Set & Delphion Integrated View:** These views will now display both IPC 7 and IPC R codes depending on what is available for a specific publication. The Result Set displays the subclass level of the first-listed IPC, while the Delphion Integrated View shows all available codes.

As an example, let us consider the new advanced IPC R code A61F 2/90. The definition from the WIPO web site is as follows:

A61F 2/00	Filters implantable into blood vessels	Core
A61F 2/82	. Devices..preventing collapse of tubular structures of the body	Core
A61F 2/86	.. Stents formed from wire-like elements	Advanced
A61F 2/90	... the wire-like elements forming a net structure	Advanced

Since A61F 2/90 is an advanced code, this code will only appear on patent documents issued from those patent authorities using the advanced IPC R. In practice, on Delphion, this means all of the full-text collection.

So, to search for patents relating to stents formed from wire-like elements in a net structure, we can use either the Boolean or Advanced search form to search A61F 2/90. The Advanced search form gives additional flexibility to search for A61F 2/90 as an "Invention" code.

This gives three results:

3 matches found of 43,663,977 patents searched Displaying results 1 - 3 of 3

PDF	Publication	Derwent Title Title (To sort a column, click label at top)	Assignee	Pub. Date	Filed	IPC Code
<input type="checkbox"/>	US20060009838A1	Expandable medical device for delivery of beneficial agent	Conor Medsystems, Inc.	2006-01-12	2005-09-07	A61K 9/54
<input type="checkbox"/>	US20060009798A1	Methods and devices for occluding body lumens and/or enhancing tissue ingrowth	AMS Research Corporation	2006-01-12	2005-01-31	A61F 2/01
<input checked="" type="checkbox"/>	US20060004437A1	Structurally variable stents	-	2006-01-05	2005-06-20	A61F 2/90

Order selected items as

Viewing the results confirms the presence of A61F 2/90 in the full text record

?	Title:	US20060009838A1: Expandable medical device for delivery of beneficial agent
?	Country:	US United States of America
?	Inventor:	Shanley, John F. ; Redwood City, CA, United States of America Eigler, Neal L. ; Pacific Palisades, CA, United States of America Park, Kinam ; West Lafayette, IN, United States of America Edelman, Elazer R. ; Brookline, MA, United States of America
?	Assignee:	Conor Medsystems, Inc. , Menlo Park, CA, United States of America other patents from CONOR MEDSYSTEMS, INC. (783800) (approx. 5) News, Profiles, Stocks and More about this company
?	Published / Filed:	2006-01-12 / 2005-09-07
?	Application Number:	US2005000222202
?	IPC Code:	: A61K 9/54; B05D 1/36; A61F 2/90;

Incorporation of IPC R into Snapshot and Data Extract will occur shortly.

PatentWeb

The following changes to enable searching of the new IPC Reform (IPC R) data were made on PatSearch FullText and MPI-INPADOC Plus during the first week of January:

- **Alerts:** Alerts will run as normal, and any queries that search IPC codes will also search the new IPC R data. However, because significant code changes have been made in IPC R, you should review and adjust your code selections in Alerts and Saved Searches.
- **Search Form:** The "US or Int'l Class" field in PatSearch Fulltext has been renamed to "US or Any IPC" and searches both IPC 1-7 (pre-reform) and IPC R data. A new "IPC R - Current" field has been added, and will allow specific searching of current IPC R data. In MPI, the existing IPC field has been relabelled as IPC 1-7 and a new "IPC R - Current" field has been added. When this field is selected, an option to take advantage of new IPC R attributes will also be presented. For saved searches and alerts in MPI, queries that include IPC criteria will need to be edited to run properly.
- **Hitlist and Record View:** These views display both IPC 1-7 and IPC R codes depending on which is available for a specific publication. The Hitlist displays the subclass level of the first-listed IPC, while the Record View shows all available codes.
- **Exports, PatGraph and Reports:** These features give preference to using Current IPC R data (vs. pre-reform codes) and Advanced codes, when available. If those codes are not present, pre-reform data and Core codes will be used

Using A61F 2/90 as an example again, a search can be conducted in PatSearch FullText

Limit by: [\[assist\]](#)

Search comments

Select search strategy/reference

Or name new

The search again retrieves three results

- [Check All](#) [Uncheck All](#)
- A61K 20060112 Conor Medsystems, Inc.
Expandable medical device for delivery of beneficial agent
 - A61F 20060112 AMS Research Corporation
Methods and devices for occluding body lumens and/or enhancing tissue ingrowth
 - A61F 20060105 {n/a}
Structurally variable stents

Viewing results confirms the presence of A61F 2/90 as an Advanced Invention code (note also the presence of the corresponding Core level codes that have automatically been added by Thomson). The particular version of IPC R (in this case 2006.01) is also indicated in the table.

US20060009838 A1
Expandable medical device for delivery of beneficial agent
Conor Medsystems, Inc.

Abstract:
An expandable medical device has a plurality of elongated struts joined together to form a substantially cylindrical device which is expandable from a cylinder having a first diameter to a cylinder having a second diameter. At least one of the plurality of struts includes at least one opening extending at least partially through a thickness of said strut. A beneficial agent is loaded into the opening within the strut in layers to achieve desired temporal release kinetics of the agent. Alternatively, the beneficial agent is loaded in a shape which is configured to achieve the desired agent delivery profile. A wide variety of delivery profiles can be achieved including zero order, pulsatile, increasing, decrease, sinusoidal, and other delivery profiles.

Inventor(s):
Shanley, John, F.
Eigler, Neal, L.
Park, Kinam
Edelman, Elazer, R.

Application No. 11/222202, **Filed** 20050907, **A1 Published** 20060112

US Class: 623001160
427002210 623001420

Int'l Class:

	Current IPC-R	invention	version	additional version
Advanced	A61K00954		20060101	
	B05D00136		20060101	
	A61F002		20060101	
Core	A61K00952		20060101	
	B05D00136		20060101	
	A61F00282		20060101	

Aureka

Changes to the *Aureka* service have also been made to accommodate IPC R codes.

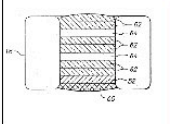
Using A61F 2/90 as our example again, a search of *Aureka* full text collection is conducted.

Years To Search	2005-Present
Section To Search	Full patent spec.
Limit By	IPCR Current
	CHOOSE A FIELD
	CHOOSE A FIELD
Proprietary Fields	CHOOSE A FIELD

As before, this retrieves three results:

3 Patent		Documents of 3 Total Documents		Print-Friendly		
Results 1 - 3		No documents selected.		Page 1 of 1		
<input type="checkbox"/>	Document ID	Title	Assignee	Inventor	Pub Date	App Date
<input type="checkbox"/>	US20060004437A1	Structurally variable stents		Jayaraman, Swamin...	2006-01-05	2005-06-20
<input type="checkbox"/>	US20060009798A1	Methods and devices for occluding body lum...	AMS Research Corp...	Callister, Jeffrey, P.	2006-01-12	2005-01-31
<input type="checkbox"/>	US20060009838A1	Expandable medical device for delivery of be...	Conor Medsystems, I...	Shanley, John, F.	2006-01-12	2005-09-07
Results 1 - 3				Page 1 of 1		

The full record view also shows related Core codes automatically added by Thomson. The particular version of IPC R (in this case 2006.01) is also indicated

	Title:	Expandable medical device for delivery of beneficial agent
	Abstract:	An expandable medical device has a plurality of elongated struts joined together to form a substantially cylindrical device which is expandable from a cylinder having a first diameter to a cylinder having a second diameter. At least one of the plurality of struts includes at least one opening extending at least partially through a thickness of said strut. A beneficial agent is loaded into the opening within the strut in layers to achieve desired temporal release kinetics of the agent. Alternatively, the beneficial agent is loaded in a shape which is configured to achieve the desired agent delivery profile. A wide variety of delivery profiles can be achieved including zero order, pulsatile, increasing, decrease, sinusoidal, and other delivery profiles.
	Assignee:	Conor Medsystems, Inc.
	Inventor:	Shanley, John, F. Park, Kinam Edelman, Elazer, R. Eigler, Neal, L.
	Publication Date:	2006-01-12
	Application Date:	2005-09-07
	Cites:	0
	Cited By:	0
	Intl Class:	Core: A61K00952 [2006-01]; A61F00282 [2006-01]; B05D00136 [2006-01] Adv: A61K00954 [2006-01]; A61F00290 [2006-01]; B05D00136 [2006-01]

Reports, Exports, and Cite Trees: These features will include IPC R soon, and will give preference to using Current IPC R data (vs. pre-reform codes) and Advanced codes, when available. If those codes are not present, pre-reform data and Core codes will be used.

Additional information

Detailed explanations of these changes are available in the:

Delphion Help Center: <http://www.delphion.com/help/ipcr>

MicroPatent Help Desk: http://www.micropat.com/mp_help_desk

Details of IPC R training sessions are also available at the:

Delphion_Web Seminar page: <http://www.delphion.com/events/news-exploring>

MicroPatent Online Education Series page: <http://www.micropat.com/static/demos.htm>

For information about how IPC R is being addressed in other Thomson Scientific products, see the IPC R area of the Thomson Scientific website:

<http://scientific.thomson.com/support/patents/coverage/latestupdates/ipc-reform/>

If you need further assistance with IPC R, please contact our Technical Support team:

<http://www.scientific.thomson.com/support/techsupport/>

References

1. *Impact of IPC reform on patent information users and providers* KnowledgeLink newsletter April 2005: <http://scientific.thomson.com/news/newsletter/2005-04/8272781/>