

## ARXIUM Patent Listing as at 2018-08-16

| Product Family      | Title   | Jurisdiction | Status    | Application #  | Filing Date | Patent #        | Issue Date |
|---------------------|---|--------------|-----------|----------------|-------------|-----------------|------------|
| Efficiency Workpath | System and Method for Management of Pharmacy Workflow                         | CA           | Granted   | 2,410,397      | 2002-10-31  | 2,410,397       | 2013-12-10 |
| Efficiency Workpath | System and Method for Management of Pharmacy Workflow                         | CA           | Published | 2,828,034      | 2002-10-31  |                 |            |
| Efficiency Workpath | System and Method for Management of Pharmacy Workflow                         | US           | Granted   | 10/283,529     | 2002-10-30  | 7,860,724       | 2010-12-28 |
| Efficiency Workpath | System and Method for Management of Pharmacy Workflow                         | US           | Granted   | 12/953,140     | 2010-11-23  | 8,571,886       | 2013-10-29 |
| Efficiency Workpath | System and Method for Reception, Analysis and Annotation of Prescription Data | US           | Granted   | 11/107,962     | 2005-04-15  | 7,847,970       | 2010-12-07 |
| MedSelect           | Cabinet System  | CA           | Granted   | 2,827,520      | 2013-08-15  | 2,827,520       | 2016-10-04 |
| MedSelect           | Cabinet System  | US           | Granted   | 13/032,753     | 2011-02-23  | 8,588,966       | 2013-11-19 |
| MedSelect           | Cabinet System  | US           | Granted   | 14/054,480     | 2013-10-15  | 9,245,405       | 2016-01-26 |
| MedSelect           | Cabinet System  | US           | Granted   | 14/969,370     | 2015-12-15  | 9,536,055       | 2017-01-03 |
| MedSelect           | Cabinet System with Improved Drawer Security                                  | US           | Granted   | 13/040,931     | 2011-03-04  | 9,121,197       | 2015-09-01 |
| MedSelect           | Cabinet System with Improved Drawer Security                                  | US           | Granted   | 14/805,966     | 2015-07-22  | 9,770,106       | 2017-09-26 |
| MedSelect           | Medical Cabinet Access Belt Optimization System                               | CA           | Published | 2,828,628      | 2013-08-28  |                 |            |
| MedSelect           | Medical Cabinet Access Belt Optimization System                               | US           | Granted   | 13/087,070     | 2011-04-14  | 8,744,621       | 2014-06-03 |
| MedSelect           | Medical Cabinet Access Belt Optimization System                               | US           | Granted   | 14/256,740     | 2014-04-18  | 9,345,644       | 2016-05-24 |
| MedSelect           | Medical Cabinet Access Belt Optimization System                               | US           | Granted   | 15/072,008     | 2016-03-16  | 9,511,001       | 2016-12-06 |
| MedSelect           | Medical Cabinet Access Belt Optimization System                               | US           | Granted   | 15/295,706     | 2016-10-17  | 9,925,123       | 2018-03-27 |
| MedSelect           | Medical Cabinet with Adjustable Drawers                                       | US           | Granted   | 09/288,685     | 1999-04-09  | 6,788,997       | 2004-09-07 |
| MedSelect           | Medical Item Storage Cabinet and Method                                       | US           | Granted   | 11/031,684     | 2005-01-07  | 7,258,249       | 2007-08-21 |
| MedSelect           | Medical Item Storage Cabinet and Method                                       | US           | Granted   | 11/031,683     | 2005-01-07  | 7,262,698       | 2007-08-28 |
| MedSelect           | Medical Item Storage Cabinet and Method                                       | US           | Granted   | 11/031,350     | 2005-01-07  | 7,263,410       | 2007-08-28 |
| MedSelect           | Medical Item Storage Cabinet and Method                                       | US           | Granted   | 11/031,686     | 2005-01-07  | 7,463,947       | 2008-12-09 |
| MedSelect           | Medical Item Storage Cabinet and Method                                       | US           | Granted   | 11/906,912     | 2007-10-04  | 7,515,988       | 2009-04-07 |
| MedSelect           | Medical Item Storage Cabinet and Method                                       | US           | Granted   | 11/031,351     | 2005-01-07  | 7,596,427       | 2009-09-29 |
| MedSelect           | Medical Item Storage Cabinet and Method                                       | US           | Granted   | 11/031,682     | 2005-01-07  | 7,689,316       | 2010-03-30 |
| MedSelect           | Medical Supply Cabinet with Lighting Features                                 | US           | Granted   | 13/015,349     | 2011-01-27  | 8,746,908       | 2014-06-10 |
| MedSelect           | Medical Supply Cabinet with Lighting Features                                 | US           | Granted   | 14/257,785     | 2014-04-21  | 9,291,341       | 2016-03-22 |
| MedSelect           | Medical Supply Cabinet with Lighting Features                                 | US           | Published | 15/042,418     | 2016-02-15  |                 |            |
| MedSelect           | Medication Cabinetry  | AU           | Granted   | 2009335680     | 2011-07-14  | 2009335680      | 2015-02-26 |
| MedSelect           | Medication Cabinetry  | AU           | Published | 2015200269     | 2015-01-21  |                 |            |
| MedSelect           | Medication Cabinetry  | BR           | Pending   | PI0924190-6    | 2011-07-06  |                 |            |
| MedSelect           | Medication Cabinetry  | CA           | Published | 2,749,002      | 2011-07-05  |                 |            |
| MedSelect           | Medication Cabinetry  | CA           | Pending   | 2,896,353      | 2015-07-07  |                 |            |
| MedSelect           | Medication Cabinetry  | CN           | Granted   | 200980156356.1 | 2011-08-08  | L200980156356.1 | 2015-08-26 |
| MedSelect           | Medication Cabinetry  | CN           | Published | 201510441691.3 | 2015-07-24  |                 |            |
| MedSelect           | Medication Cabinetry  | EP           | Published | 90838015.7     | 2011-07-25  |                 |            |
| MedSelect           | Medication Cabinetry  | EP           | Pending   | 17159880.8     | 2017-03-08  |                 |            |
| MedSelect           | Medication Cabinetry  | JP           | Granted   | 2011-545369    | 2011-07-06  | 5607072         | 2014-09-05 |

## ARXIUM Patent Listing as at 2018-08-16

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| MedSelect      | Medication Cabinetry   | JP           | Granted   | 2014-049171    | 2014-03-12  | 5710040   | 2015-03-13 |
| MedSelect      | Medication Cabinetry   | JP           | Published | 2015-040191    | 2015-03-02  |           |            |
| MedSelect      | Medication Cabinetry   | US           | Granted   | 13/329,787     | 2011-12-19  | 9,111,408 | 2015-08-18 |
| MedSelect      | Medication Cabinetry   | US           | Published | 14/792,347     | 2015-07-06  |           |            |
| MedSelect      | Method of Tracking and Dispensing Medical Items  | US           | Granted   | 09/849,625     | 2001-05-04  | 7,685,026 | 2010-03-23 |
| MedSelect      | System and Method for Tracking Medical Items and Supplies  | US           | Granted   | 10/725,913     | 2003-12-01  | 6,963,791 | 2005-11-08 |
| MedSelect      | System for Tracking and Dispensing Medical Items from Environmentally Controlled Storage Area                  | US           | Granted   | 09/086,857     | 1998-05-29  | 8,423,180 | 2013-04-16 |
| MedSelect SIA  | Medication Cabinetry   | US           | Granted   | 12/351,679     | 2009-01-09  | 8,103,379 | 2012-01-24 |
| OptiFill       | Apparatus and Methods for Dispensing Pre-Filled Containers   | CA           | Granted   | 2,509,120      | 2005-06-02  | 2,509,120 | 2008-11-25 |
| OptiFill       | Apparatus and Methods for Dispensing Pre-Filled Containers   | US           | Granted   | 11/142,979     | 2005-06-02  | 8,231,749 | 2012-07-31 |
| OptiFill       | Apparatus and Methods for Dispensing Pre-Filled Containers with Precisely-Applied Patient Specific Information | US           | Granted   | 13/536,594     | 2012-06-28  | 8,986,476 | 2015-03-24 |
| OptiFill       | Apparatus and Methods for Dispensing Pre-Filled Containers with Precisely-Applied Patient Specific Information | US           | Granted   | 14/619,913     | 2015-02-11  | 9,878,853 | 2018-01-30 |
| OptiFill       | Automated Method for Dispensing Bulk Medications with Machine-Readable Code                                    | CA           | Granted   | 2,291,558      | 1999-12-03  | 2,291,558 | 2009-09-22 |
| OptiFill       | Automated Method for Dispensing Bulk Medications with Machine-Readable Code                                    | US           | Granted   | 09/454,042     | 1999-12-03  | 6,370,841 | 2002-04-16 |
| RIVA           | Automated Pharmacy Admixture System (Air Handling)   | CA           | Granted   | 2592109        | 2005-12-22  | 2,592,109 | 2014-09-23 |
| RIVA           | Automated Pharmacy Admixture System (Air Handling)   | DE           | Granted   | 05855521.0     | 2005-12-22  | 1830782   | 2013-06-05 |
| RIVA           | Automated Pharmacy Admixture System (Air Handling)   | DK           | Granted   | 05855521.0     | 2005-12-22  | 1830782   | 2013-06-05 |
| RIVA           | Automated Pharmacy Admixture System (Air Handling)   | EP           | Granted   | 05855521.0     | 2005-12-22  | 1830782   | 2013-06-05 |
| RIVA           | Automated Pharmacy Admixture System (Air Handling)   | FR           | Granted   | 05855521.0     | 2005-12-22  | 1830782   | 2013-06-05 |
| RIVA           | Automated Pharmacy Admixture System (Air Handling)   | GB           | Granted   | 05855521.0     | 2005-12-22  | 1830782   | 2013-06-05 |
| RIVA           | Automated Pharmacy Admixture System (Air Handling)   | IN           | Granted   | 212/DELNP/2007 | 2005-12-22  | 269359    | 2015-10-16 |
| RIVA           | Automated Pharmacy Admixture System (Air Handling)   | IT           | Granted   | 05855521.0     | 2005-12-22  | 1830782   | 2013-06-05 |
| RIVA           | Automated Pharmacy Admixture System (Air Handling)   | TR           | Granted   | 05855521.0     | 2005-12-22  | 1830782   | 2013-06-05 |
| RIVA           | Automated Pharmacy Admixture System (Air Handling)   | US           | Granted   | 11/316,795     | 2005-12-22  | 7,610,115 | 2009-10-27 |
| RIVA           | Automated Pharmacy Admixture System (Air Handling)   | US           | Granted   | 12/566,037     | 2009-09-24  | 8,571,708 | 2013-10-29 |
| RIVA           | Automated Pharmacy Admixture System (Intermediary Bags)  | CA           | Granted   | 2756095        | 2010-01-25  | 2,756,095 | 2017-01-17 |
| RIVA           | Automated Pharmacy Admixture System (Intermediary Bags)  | EP           | Published | 10753018.0     | 2010-01-25  |           |            |
| RIVA           | Automated Pharmacy Admixture System (Intermediary Bags)  | US           | Granted   | 12/628,884     | 2009-12-01  | 8,386,070 | 2013-02-26 |
| RIVA           | Automated Pharmacy Admixture System (Multiple Claims)  | CA           | Granted   | 2607449        | 2006-04-26  | 2,607,449 | 2014-11-25 |
| RIVA           | Automated Pharmacy Admixture System (Multiple Claims)  | CH           | Granted   | 06751430.7     | 2006-04-26  | 1889197   | 2011-11-09 |

## ARxIUM Patent Listing as at 2018-08-16

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|----------------|---|--------------|-----------|----------------|-------------|-----------------|------------|
| RIVA           | Automated Pharmacy Admixture System (Multiple Claims)                           | CN           | Granted   | 200680025862.3 | 2006-04-26  | L200680025862.3 | 2011-09-14 |
| RIVA           | Automated Pharmacy Admixture System (Multiple Claims)                           | DE           | Granted   | 06751430.7     | 2006-04-26  | 1889197         | 2011-11-09 |
| RIVA           | Automated Pharmacy Admixture System (Multiple Claims)                           | DK           | Granted   | 06751430.7     | 2006-04-26  | 1889197         | 2011-11-09 |
| RIVA           | Automated Pharmacy Admixture System (Multiple Claims)                           | EP           | Granted   | 11008865.5     | 2006-04-26  | 2457550         | 2016-04-13 |
| RIVA           | Automated Pharmacy Admixture System (Multiple Claims)                           | EP           | Published | 11008863.0     | 2006-04-26  | 2,457,549       | 2016-06-08 |
| RIVA           | Automated Pharmacy Admixture System (Multiple Claims)                           | EP           | Published | 11008866.3     | 2006-04-26  | 2,465,483       | 2016-06-08 |
| RIVA           | Automated Pharmacy Admixture System (Multiple Claims)                           | FR           | Granted   | 06751430.7     | 2006-04-26  | 1889197         | 2011-11-09 |
| RIVA           | Automated Pharmacy Admixture System (Multiple Claims)                           | GB           | Granted   | 06751430.7     | 2006-04-26  | 1889197         | 2011-11-09 |
| RIVA           | Automated Pharmacy Admixture System (Multiple Claims)                           | IN           | Pending   | 949/DELNP/2007 | 2006-04-26  |                 |            |
| RIVA           | Automated Pharmacy Admixture System (Multiple Claims)                           | IT           | Granted   | 06751430.7     | 2006-04-26  | 1889197         | 2011-11-09 |
| RIVA           | Automated Pharmacy Admixture System (Multiple Claims)                           | JP           | Granted   | 2008-512295    | 2006-04-26  | 5139976         | 2012-11-22 |
| RIVA           | Automated Pharmacy Admixture System (Multiple Claims)                           | TR           | Granted   | 06751430.7     | 2006-04-26  | 1889197         | 2011-11-09 |
| RIVA           | Automated Pharmacy Admixture System (Multiple Claims)                           | US           | Granted   | 11/389,995     | 2006-03-27  | 7,783,383       | 2010-08-24 |
| RIVA           | Automated Pharmacy Admixture System (Multiple Claims)                           | US           | Granted   | 12/756,763     | 2010-04-08  | 7,930,066       | 2011-04-19 |
| RIVA           | Automated Pharmacy Admixture System (Multiple Claims)                           | US           | Granted   | 13/044,049     | 2011-03-09  | 9,043,019       | 2015-05-26 |
| RIVA           | Automated Pharmacy Admixture System (Multiple Claims)                           | US           | Granted   | 14/616,298     | 2015-02-06  | 9,579,255       | 2017-02-28 |
| RIVA           | Closed System Transfer Device and Automation System                             | CA           | Pending   | 2,879,558      | 2013-07-24  |                 |            |
| RIVA           | Closed System Transfer Device and Automation System                             | EP           | Granted   | 13822142.9     | 2013-07-24  | 2877139         | 2017-03-01 |
| RIVA           | Closed System Transfer Device and Automation System                             | US           | Granted   | 13/950,061     | 2013-07-24  | 9,173,813       | 2015-11-03 |
| RIVA           | Control of Fluid Transfer Operation (Needle Entry)                              | CA           | Pending   | 2,668,981      | 2007-11-09  |                 |            |
| RIVA           | Control of Fluid Transfer Operation (Needle Entry)                              | CN           | Granted   | 200780048871.9 | 2007-11-09  | L200780048871.9 | 2013-12-04 |
| RIVA           | Control of Fluid Transfer Operation (Needle Entry)                              | EP           | Granted   | 07864247.7     | 2007-11-09  | 2083784         | 2016-01-27 |
| RIVA           | Control of Fluid Transfer Operation (Needle Entry)                              | JP           | Granted   | 2009-536523    | 2007-11-09  | 5466508         | 2014-01-31 |
| RIVA           | Control of Fluid Transfer Operation (Needle Entry)                              | US           | Granted   | 11/937,846     | 2007-11-09  | 8,267,129       | 2012-09-18 |
| RIVA           | Gripper Device  | US           | Granted   | 12/209,097     | 2008-09-11  | 8,271,138       | 2012-09-18 |
| RIVA           | Method and Apparatus for Automated Fluid Transfer Operations (Pressure Balance) | US           | Granted   | 12/271,828     | 2008-11-14  | 8,225,824       | 2012-07-24 |
| RIVA           | Ultraviolet Sanitization in Pharmacy Environments                               | CA           | Pending   | 2676695        | 2008-02-22  |                 |            |
| RIVA           | Ultraviolet Sanitization in Pharmacy Environments                               | CN           | Granted   | 200880005721.4 | 2008-02-22  | L200880005721.4 | 2014-07-30 |
| RIVA           | Ultraviolet Sanitization in Pharmacy Environments                               | US           | Granted   | 12/035,850     | 2008-02-22  | 7,931,859       | 2011-04-26 |
| RIVA           | Ultraviolet Sanitization in Pharmacy Environments                               | US           | Granted   | 13/073,613     | 2011-03-28  | 8,182,744       | 2012-05-22 |
| Smart Tray     | Pharmacy Dispensing System and Method   | CA           | Pending   | 2,965,166      | 2017-04-25  |                 |            |
| Telepharmacy   | Drug Dispensing System  | JP           | Granted   | 2013-236815    | 2013-11-15  | JP6046596       | 2016-11-25 |
| Telepharmacy   | Method for Controlling a Drug Dispensing System                                 | US           | Granted   | 10/315,963     | 2002-12-09  | 7,991,507       | 2011-08-02 |
| Telepharmacy   | System and Method for Drug Dispensing   | JP           | Granted   | 2011-84596     | 2011-04-06  | 5663378         | 2014-12-12 |
| Telepharmacy   | Systems and Methods for Dispensing Medical Products                             | CA           | Granted   | 2,502,489      | 2004-04-09  | 2,502,489       | 2014-02-04 |
| Telepharmacy   | Systems and Methods for Dispensing Medical Products                             | CA           | Published | 2,833,710      | 2003-10-16  | 2,833,710       | 2017-11-14 |
| Telepharmacy   | Systems and Methods for Dispensing Medical Products                             | US           | Granted   | 10/105,059     | 2002-03-22  | 6,735,497       | 2004-05-11 |

## ARxIUM Patent Listing as at 2018-08-16

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|---------------------|--|--------------|-----------------|---------------|-------------|------------|------------|
| Telepharmacy        | Systems and Methods for Drug Dispensing                  | CA           | Granted         | 2,383,290     | 2002-03-21  | 2,383,290  | 2013-07-09 |
| Telepharmacy        | Systems and Methods for Drug Dispensing                  | CA           | Published       | 2,814,259     | 2000-09-22  | 2,814,259  | 2017-10-17 |
| Telepharmacy        | Systems and Methods for Drug Dispensing                  | JP           | Granted         | 2001-524558   | 2000-09-22  | 5078210    | 2012-09-07 |
| Telepharmacy        | Systems and Methods for Drug Dispensing                  | US           | Granted         | 09/454,359    | 1999-12-03  | 6,564,121  | 2003-05-13 |
| Telepharmacy        | Systems and Methods for Drug Dispensing                  | US           | Granted         | 084596/2011   | 2011-04-06  | 5,663,378  | 2014-12-12 |
| Telepharmacy        | Systems for Dispensing Medical Products                  | US           | Granted         | 10/272,516    | 2002-10-16  | 7,006,893  | 2006-02-28 |
| Tray Filling        | Pharmaceutical Tray Filling System and Method            | US           | Granted         | 13/828,791    | 2013-03-14  | 9,477,816  | 2016-10-25 |
| Tray Filling        | Pharmaceutical Tray Filling System and Method            | US           | Published       | 15/277,476    | 2016-09-27  |            |            |
| Vial Filling        | Integrated Automated Drug Dispenser Method and Apparatus | CA           | Granted         | 2,341,868     | 1999-08-27  | 2,341,868  | 2010-11-02 |
| Vial Filling        | Integrated Automated Drug Dispenser Method and Apparatus | US           | Granted         | 09/209,995    | 1998-12-11  | 6,256,967  | 2001-07-10 |
| Vial Filling        | Integrated Automated Drug Dispenser Method and Apparatus | US           | Granted         | 09/860,204    | 2001-05-18  | 6,449,927  | 2002-09-17 |
| Vial Filling        | Integrated Automated Drug Dispenser Method and Apparatus | US           | Granted         | 10/186,755    | 2002-09-16  | 6,742,671  | 2004-06-01 |
| Vial Filling        | Medication Collecting System                             | CA           | Jointly Granted | 2,353,722     | 1999-12-02  | 2,353,722  | 2009-05-12 |
| Vial Filling        | Medication Collecting System                             | DE           | Jointly Granted | 69940893.8-08 | 1999-12-02  | 1147047    | 2000-06-08 |
| Vial Filling        | Medication Collecting System                             | DE           | Jointly Granted | 9159907.6     | 1999-12-02  | 69943733.4 | 2011-09-21 |
| Vial Filling        | Medication Collecting System                             | DE           | Jointly Granted | 699 45 343.7  | 2011-09-20  | 2401996    | 2015-05-27 |
| Vial Filling        | Medication Collecting System                             | EP           | Jointly Granted | 99960654.4    | 2000-06-08  | 1147047    | 2009-05-13 |
| Vial Filling        | Medication Collecting System                             | EP           | Jointly Granted | 9159907.6     | 1999-12-02  | 2082720    | 2011-09-21 |
| Vial Filling        | Medication Collecting System                             | EP           | Jointly Granted | 11181960.3    | 2011-09-20  | 2401996    | 2015-05-27 |
| Vial Filling        | Medication Collecting System                             | FR           | Jointly Granted | 99960654.4-   | 1999-12-02  | 1147047    | 2000-06-08 |
| Vial Filling        | Medication Collecting System                             | FR           | Jointly Granted | 9159907.6     | 1999-12-02  | 2082720    | 2011-09-21 |
| Vial Filling        | Medication Collecting System                             | FR           | Jointly Granted | 11181960.3    | 2011-09-20  | 2401996    | 2015-05-27 |
| Vial Filling        | Medication Collecting System                             | GB           | Jointly Granted | 99960654.4-   | 1999-12-02  | 1147047    | 2000-06-08 |
| Vial Filling        | Medication Collecting System                             | GB           | Jointly Granted | 9159907.6     | 1999-12-02  | 2082720    | 2011-09-21 |
| Vial Filling        | Medication Collecting System                             | GB           | Jointly Granted | 11181960.3    | 2011-09-20  | 2401996    | 2015-05-27 |
| Vial Filling        | Medication Collecting System                             | US           | Jointly Granted | 09/205,861    | 1998-12-04  | 6,170,230  | 2001-01-09 |
| Vial Filling        | Medication Collecting System                             | US           | Granted         | 09/702,441    | 2000-10-26  | 6,625,952  | 2003-09-30 |
| Vial Filling (RFID) | Pharmacy Dispensing System and Method                    | CA           | Granted         | 2,488,955     | 2004-12-03  | 2,488,955  | 2014-10-07 |
| Vial Filling (RFID) | Pharmacy Dispensing System and Method                    | CA           | Granted         | 2,857,741     | 2004-12-03  | 2,857,741  | 2017-06-13 |
| Vial Filling (RFID) | Pharmacy Dispensing System and Method                    | US           | Granted         | 11/003,186    | 2004-12-03  | 7,805,217  | 2010-09-28 |
| Vial Filling (RFID) | Pharmacy Dispensing System and Method                    | US           | Granted         | 12/836,284    | 2010-07-14  | 8,417,379  | 2013-04-09 |
| Vial Filling (RFID) | Pharmacy Dispensing System and Method                    | US           | Granted         | 13/839,127    | 2013-03-15  | 8,805,578  | 2014-08-12 |
| Vial Filling (RFID) | Pharmacy Dispensing System and Method                    | US           | Published       | 14/313,756    | 2014-06-24  |            |            |