

The Quantum™ and Quantum Flex™ Cell Expansion System may be covered by one or more of the following patents:

| <b>Country</b>             | <b>Pat. No.</b>   |
|----------------------------|-------------------|
| Australia                  | 2007265147        |
| Australia                  | 2008236529        |
| Australia                  | 2009282271        |
| Australia                  | 2009320165        |
| Australia                  | 2010216237        |
| Australia                  | 2017261348        |
| Belgium                    | 3198006           |
| Belgium                    | 3673042           |
| Canada                     | 2680130           |
| Canada                     | 2678893           |
| China                      | ZL200780001348.0  |
| China                      | ZL201510551430.7  |
| China                      | ZL201180021315.9  |
| China                      | ZL201480065648.5  |
| China                      | ZL201480065645.1  |
| China                      | ZL201580020869.5  |
| China                      | ZL201680026705.8  |
| China                      | ZL 201880030588.1 |
| China                      | ZL2018800550135   |
| European Patent Convention | 2625264           |
| European Patent Convention | 3613841           |
| France                     | 2032692           |
| France                     | 2148922           |
| France                     | 2321403           |
| France                     | 2350256           |
| France                     | 2398888           |
| France                     | 2556141           |
| France                     | 2566950           |
| France                     | 2566951           |
| France                     | 2625264           |
| France                     | 2625263           |
| France                     | 2625577           |
| France                     | 2710118           |
| France                     | 3068866           |
| France                     | 3068867           |
| France                     | 3613841           |
| France                     | 3122866           |
| France                     | 3198006           |
| France                     | 3294872           |
| France                     | 3673042           |
| Germany                    | 602007048799.4    |
| Germany                    | 602008057342.7    |
| Germany                    | 602008053855.9    |
| Germany                    | 602008054988.7    |
| Germany                    | 602008062249.5    |
| Germany                    | 602009062469.5    |
| Germany                    | 602009048065.0    |
| Germany                    | 602010035018.5    |
| Germany                    | 602011058478.2    |
| Germany                    | 602011041286.8    |
| Germany                    | 602011065353.9    |

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|----------------|-----------------|
| Germany        | 6020110735047.0 |
| Germany        | 602011065529.9  |
| Germany        | 602011060044.3  |
| Germany        | 602012042646.2  |
| Germany        | 602014024606.0  |
| Germany        | 602014024190.5  |
| Germany        | 602015078465.0  |
| Germany        | 602015042015.2  |
| Germany        | 602015067231.3  |
| Germany        | 602016017384.0  |
| Germany        | 6020180271953.0 |
| Japan          | 5550902         |
| Japan          | 5524824         |
| Japan          | 5416772         |
| Japan          | 5734194         |
| Japan          | 5643235         |
| Japan          | 6454314         |
| Japan          | 6039547         |
| Japan          | 6466841         |
| Japan          | 6633143         |
| Japan          | 6612227         |
| Japan          | 6633522         |
| Japan          | 6783143         |
| Japan          | 6830059         |
| Japan          | 7421602         |
| Japan          | 7101751         |
| Japan          | 6816026         |
| Japan          | 6986031         |
| Japan          | 7034949         |
| Japan          | 7393945         |
| Japan          | 7114693         |
| Japan          | 1746550         |
| Japan          | 7603767         |
| Japan          | 7571089         |
| Luxembourg     | 3198006         |
| Luxembourg     | 3673042         |
| Netherlands    | 3198006         |
| Netherlands    | 3673042         |
| Spain          | EP2115116       |
| Switzerland    | 3198006         |
| Switzerland    | 3673042         |
| United Kingdom | 2032692         |
| United Kingdom | 2129764         |
| United Kingdom | 2115116         |
| United Kingdom | 2152851         |
| United Kingdom | 2148922         |
| United Kingdom | 2321403         |
| United Kingdom | 2350256         |
| United Kingdom | 2398888         |
| United Kingdom | 2556141         |
| United Kingdom | 2566950         |

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| United Kingdom | 2566951         |
| United Kingdom | 2625263         |
| United Kingdom | 2625577         |
| United Kingdom | 2625264         |
| United Kingdom | 2710118         |
| United Kingdom | 3068866         |
| United Kingdom | 3068867         |
| United Kingdom | 3613841         |
| United Kingdom | 3122866         |
| United Kingdom | 3198006         |
| United Kingdom | 3294872         |
| United Kingdom | 3673042         |
| United States  | 9260698         |
| United States  | 9428729         |
| United States  | 8691565         |
| United States  | 10577582        |
| United States  | 8321145         |
| United States  | 8906688         |
| United States  | 8809043         |
| United States  | 8399245         |
| United States  | 8785181         |
| United States  | 8309347         |
| United States  | 9284523         |
| United States  | 9670451         |
| United States  | 10870827        |
| United States  | 10669519        |
| United States  | 8999046         |
| United States  | 8841122         |
| United States  | 8895291         |
| United States  | 9057045         |
| United States  | 10577576        |
| United States  | 9175259         |
| United States  | 9695393         |
| United States  | 10557112        |
| United States  | 9617506         |
| United States  | 10633625        |
| United States  | 9677042         |
| United States  | 11008547        |
| United States  | 11667876        |
| United States  | 11708554        |
| United States  | 11667881        |
| United States  | 10077421        |
| United States  | 11795432        |
| United States  | 11746319        |
| United States  | 11685883        |
| United States  | 10577575        |
| United States  | 11634677        |
| United States  | 11104874        |
| United States  | 10577585        |
| United States  | 11773363        |
| United States  | 11613727        |

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|----------------|-----------------|
| United States  | 11702634        |
| United States  | 11999929        |
| United States  | 11629332        |
| United States  | 1124046         |
| United States  | 11608486        |
| United States  | 11965175        |
| United States  | 12152699        |