

Evonik issued U.S. Patent for Groundbreaking Microencapsulation Process

 Production Process for Extended-Release Parenteral Formulations

Essen. The U.S. Patent and Trademark Office (USPTO) has issued leading specialty chemicals company Evonik a process patent (No. 8,916,196) for the preparation of extended-release, injectable pharmaceuticals using the company's proprietary FormEZE[™] microparticle technology.

"This innovative, continuous microencapsulation process allows for industrial production of drug eluting particles for long acting injectables, which can be administered using smaller-diameter needles" said Kevin Burton, Head of Evonik's Drug Delivery Business. "We are delighted that the USPTO has issued this patent covering Evonik's groundbreaking FormEZE™ microparticle production process. "

The patent enables Evonik to develop and manufacture for its customers, injectable drug products that not only provide benefits to patients, physicians, and healthcare professionals, but also can prove to be more economical for pharmaceutical companies.

Advantages of Evonik's patented proprietary FormEZE™ microencapsulation technology include:

- Increased patient safety, tolerability and compliance,
- higher drug bioavailability,
- precise control of microparticle size distribution, which facilitates smoother, quicker and easier injections with smaller needles for longer drug delivery with a single administration,
- lower production costs,
- scalable continuous aseptic microencapsulation process, covering all stages from laboratory to production.

The United States Patent, No. 8,916,196, is the latest innovation from Evonik's Birmingham Laboratories (USA). The site is part of the Nutrition & Care segment of Evonik where microsphere drug

March 18, 2015

Contact person specialized press Dr. Jürgen Krauter Communication Nutrition & Care Phone +49 6181 59-6847 Fax +49 6181 59-76847 juergen.krauter@evonik.com

Evonik Industries AG

Rellinghauser Straße 1–11 45128 Essen Germany Phone +49 201 177–01 Telefax +49 201 177–3475 www.evonik.de

Supervisory Board

Dr. Werner Müller, Chairman Executive Board Dr. Klaus Engel, Chairman Christian Kullmann Thomas Wessel Patrik Wohlhauser Ute Wolf

Registered office Essen Registered court Essen local court Commercial registry B 19474 VAT ID no. DE 811160003



systems are developed and produced using Evonik's proprietary FormEZE™ technology as well as its bioresorbable RESOMER® and RESOMER® Select polymers.

"Our ability to offer reliable and innovative product and service solutions to our customers clearly positions Evonik as a leading strategic partner for the pharmaceutical industry," said Dr. Jean-Luc Herbeaux, Head of Evonik's Health Care Business Line. "We do so in a broad range of enabling applications ranging from active ingredients to drug delivery systems."

Company information

Evonik, the creative industrial group from Germany, is one of the world leaders in specialty chemicals. Profitable growth and a sustained increase in the value of the company form the heart of Evonik's corporate strategy. Its activities focus on the key megatrends health, nutrition, resource efficiency and globalization. Evonik benefits specifically from its innovative prowess and integrated technology platforms.

Evonik is active in over 100 countries around the world. In fiscal 2014 more than 33,000 employees generated sales of around \in 12.9 billion and an operating profit (adjusted EBITDA) of about \in 1.9 billion.

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