



Press Release

Corwave Announces Issuance of US Patent Covering Its Implantable Left Ventricular Assist Device Leveraging the Wave Membrane Technology

Clichy, July 5th, 2018 – CorWave, a French medical technology company that develops innovative implantable cardiac support devices for patients suffering from heart failure, announced today that it has obtained patent no. US 9,968,720 B2 on May 15, 2018 from the United States Patent and Trademark Office.

Titled **“Implantable pump system having an undulating membrane,”** this patent describes the application of CorWave’s technology for blood pumping in a left ventricular assist device (LVAD), and specific designs related to using the wave membrane technology to make a blood pump. The term of this patent extends into 2037. A corresponding PCT international application is also pending.

This patent further completes CorWave’s extended IP portfolio across four patent families.

Contrary to the different LVAD on the market today, CorWave wave membrane technology is able to mimic a pulse and produce blood flow velocity similar to that of a native heart. Closer to the natural functioning of the heart, CorWave pumps have the potential to drastically reduce the risk of complications and costs associated with them. Despite the numerous limitations of the current technologies, the LVAD market already represents about one billion of sales globally.

“This is a significant milestone for the company and the R&D group. We have been working hard at the forefront of the technological frontier to bring CorWave’s novel pumping technology to the LVAD space. The receipt of this patent reinforces the unique nature of the wave technology.” comments Carl Botterbusch, CorWave CTO.

“CorWave is a company with global ambitions. Having a patented system in the US is a requirement to bring the expected benefits of CorWave’s technology to American patients and clinicians. Thousands of American patients are already supported by LVADs and the US is home to numerous clinical centers of excellence that have been pioneering the LVAD field for decades.” explains Louis de Lillers, CorWave CEO.



A breakthrough technology addressing an important public health issue: chronic heart failure.

CorWave was incorporated by MD Start, a company builder that brought several medical breakthroughs to the clinic. CorWave's pumping technology relies on solid scientific foundations stemming from over twenty years of research initiated by an alumnus from the Arts et Métiers ParisTech, a leading engineering and research graduate school in France, in collaboration with a French National Scientific Research Centre (CNRS) laboratory.

CorWave is bringing its breakthrough pumping technology to the field of heart pumps in response to a public health problem: chronic heart failure. In collaboration with world-class university hospitals, CorWave is developing two ground-breaking products: Neptune, a full support LVAD and Nemo, a partial support cardiac assist device.

About CorWave

CorWave is a French company that develops innovative cardiac support devices. The CorWave technology stands out from other LVADs currently on the market due to its physiological design enabled by its unique undulating membrane. Among other things, it is able to mimic a pulse and produce blood flow velocity similar to that of a healthy heart. Eventually, CorWave's membrane pump technology should reduce complications associated with current devices and improve the care of patients with heart failure, a market potentially worth several billion euros.

Founded in 2011 by the incubator MD Start and supported by well-known investors, including Bpifrance, Novo Seeds, Seventure, Sofinnova and Ysios, CorWave has received over €20 millions of financing and employs more than fifty people. Find out more: www.corwave.com

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