

Press Release

MaRVis Interventional GmbH has been granted ten new international patents covering its innovative platform technology and products for interventional MRI

February 16, 2021 – MaRVis Interventional GmbH is dedicated to interventional MRI. Essential medical devices developed by MaRVis for innovative, powerful, and patient-friendly minimally invasive medical procedures guided by magnetic resonance imaging (MRI) will play a prominent role in clinical development of this innovative field of diagnosis and therapy. A new level of precision medicine will be enabled for treatment of numerous diseases. The MaRVis platform technology for MR safe guidewires, catheters and other interventional devices is broadly patent protected. In 2020 ten new international patents have been granted to MaRVis Interventional GmbH, covering technologies, products and production technologies.

MaRVis Interventional GmbH is dedicated to interventional MRI. Essential medical devices developed by MaRVis, such as MR guidewires, are used for innovative, powerful, and patient-friendly minimally invasive medical procedures guided by magnetic resonance imaging (MRI). They will play a prominent role in clinical development of this innovative field of diagnosis and therapy. MRI – guided interventions offer a huge number of benefits for patients, physicians and the healthcare system. They lead to a new level of precision medicine without radiation burden.

Continuous visualization by MRI over the entire duration of the intervention is another huge benefit as it allows the physician to permanently see what he is doing. This is not possible with X-ray guidance due to the radiation burden. However, commercial interventional devices are built from metallic materials. Metal components are unsafe in MRI as they cause heating and electric currents in such devices, endangering patients and physicians. Therefore, a new generation of MR safe medical devices – which are also visible in MRI in a defined way – is required.

MaRVis has developed over the past years an innovative platform technology for MR safe guidewires, catheters and other interventional devices. The CE Mark has been achieved for three MaRVis MR Guidewire products lines for different applications. This platform technology is broadly covered by a comprehensive patent portfolio. In 2020 ten new international patents have been granted to MaRVis Interventional GmbH, covering technologies, products and production technologies. This increases the number of patents granted to MaRVis to 29. Further international patent applications are pending.

Dr. Klaus Düring, CEO of MaRVis Interventional GmbH, said: “This large number of new patents granted in the past year is a validation of our patenting strategy. Our patent families cover numerous aspects and efficiently protect the innovative MaRVis interventional devices.”

MaRVis Interventional GmbH is a German medical device company dedicated to development, regulatory approval and marketing of MR safe and MR visible interventional devices. It has developed a patent-protected comprehensive platform technology integrating optimal mechanical properties with sharp and

precise visualization of the devices in MRI. The first focus of MaRVis is on MR safe and visible guidewires, which has been realized in the world's first full portfolio of CE marked 0.035" standard and stiff guidewires and 0.014" micro guidewires. The MaRVis guidewires offer superior mechanical handling and MR visibility and have been successfully tested in numerous model and animal trials in >25 European and U.S. centers in various medical fields of application. This first-in-class platform technology provides high flexibility and is a powerful basis for the design of a broad spectrum of diverse interventional MR safe and MR visible devices.

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