

News > Innovations

Miniaturized Device for Pain Management

next ▶ last ▶

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Biegler Medizinelektronik, working in cooperation with doctors at the Vienna General Hospital (AKH), has developed a miniaturized stimulation device. Called the P-STIM, the device enables patients suffering from pain to lead a normal daily life during stimulation independent of the doctor and the hospital.

The project was awarded the 10,000 euro Karl Ritter von Ghega prize as the most innovative entry in the Best Innovators in Lower

Austria competition in St. Pölten . The method itself has been used successfully in pain therapy for many years, but it had a very limited field of application due to the size and lack of mobility of the stimulation devices, which were located at a doctor's office or in a hospital. In contrast, the dimensions of the new device are 63x32x7 mm, and it weighs a mere 7g. Previously only table-top models existed that weigh several kilograms.

Biegler has also developed an aid (MULTI-POINT) which can be used by a wide group of professionals to facilitate fast, safe application. MULTI-POINT picks up positioning plasters and searches for acupuncture points by measuring skin resistance. It indicates the points, picks up the fine needles and places them at the points that were previously marked.

One third of dialysis cases are caused by long-term use of pain medication. It is easy to imagine the enormous savings that would result for the health sector if an alternative form of therapy could avoid the side effects both to the patient and the economy in general. Initial sales contracts have now been signed. Biegler GmbH has 37 employees and is oriented towards the export market. Its activities include the production of electronic medical devices and disposable medical articles made of plastic.

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