



Kriens, Switzerland, December 2018

Dear readers

With the completion of the FlexOmega project MEASURING ROWING POWER, MAM has again proved that we live up to the PRODUCT DEVELOPMENT FOR INNOVATIVE AIMS letterhead printed on our writing paper. A product was created from start to finish which involved the fields of mechanical engineering, instrumentation, signal theory, digital circuits (PCB design), IT technology (iPhone app) and manufacturing. A good choice of supplier companies and good communication with them was essential for this success. In

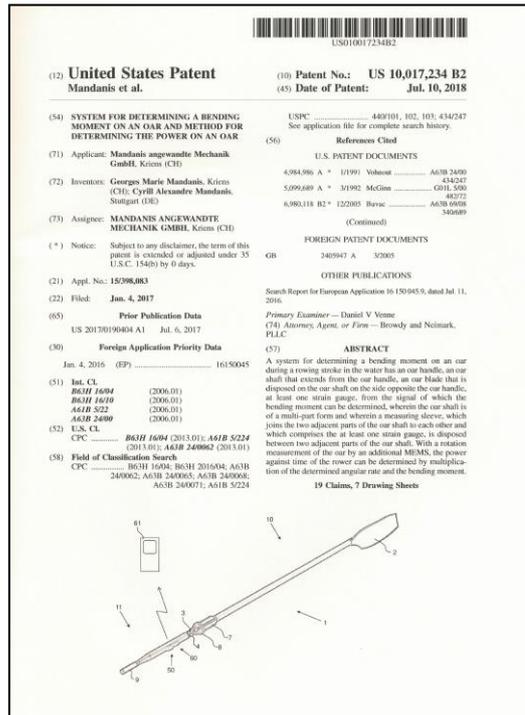
CSEM Alpnach we found the ideal partner for the development and programming of the sensor using a Bluetooth transmitter and, again in Central Switzerland, RUAG Emmen and DISA Sarnen provided assistance with the high quality bonding of the strain gauges. InnoTix AG in Zurich collaborated on the implementation of an app using the iOS operating system which contained all the necessary functions for monitoring the oar movement.

The idea of measuring the exact rowing power directly instead of the rowing forces was patented in Europe and the USA. Thanks to the painstaking description of the system in cooperation with the patent lawyer from Isler & Pedrazzini AG, we were able to prove that our idea is innovative and represents an advance compared to the current state of the art. This invention lies in an area very close to that of wearable technologies, which are currently experiencing a sensational boom. The interface between mechanics and IT is fascinating and we are very keen to explore this further and to tackle challenges which will hopefully lead to new inventions.

Nevertheless, the core business of MAM remains stress analysis, mechanical studies and vulnerability studies. We have a keen interest in projects in these areas where we can deploy all our knowledge and experience in the service of our customers.

Invitation to a boat trip on the Rotsee, Lucerne

With the assistance of Mario Gyr we were able to film a video on the wonderful Rotsee near Lucerne to demonstrate and explain the FlexOmega in detail. We invite you to look at the pictures in these beautiful surroundings by clicking on <https://mandanis.ch/flexomega/>.



Seasons Greetings and
have a good winter

G. Mandanis