

## ABSTRACT

The SASS (Sleep Apnea Shock System) is our new and improved method to treat people who have been diagnosed with a potentially fatal breathing disorder called “sleep apnea”. The SASS would advance the traditional technology of CPAP, which consists of a mask worn during sleep to control the level of oxygen intake. Many sufferers find this device helpful, although noisy, uncomfortable and cumbersome. Our invention, “SASS”, is a device composed of RFID tags, BioSteel patches and nanowires. A small incision would be made in the neck where an RFID tag would be inserted. A BioSteel patch would be placed over the incision area, dissolving into the skin, keeping the RFID tag from moving out of place. When low oxygen levels are detected by the RFID tag, nanowires would self-assemble to correct the problem in the throat muscles, allowing proper levels of oxygen to its user.