

MAGNETIC RESONANCE IMAGING (MRI) SAFE REMOTELY ADJUSTABLE ARTIFICIAL SPHINCTER

Abstract of the Invention

An implantable artificial sphincter system provides long-term adjustment via transcutaneous energy transfer (TET), minimizing invasive adjustment through adding or removing fluid via a syringe. An infuser device provides bi-directional fluid transfer via a flexible conduit to a sphincter band, such as a gastric band. Materials are nonferrous and nonmagnetic so as to be magnetic resonance imaging (MRI) safe, being substantially immune to strong magnetic fields and not introducing an electromagnetic interference/compatibility (EMIC) hazard.

(Figure 1)