

(19) **United States**(12) **Patent Application Publication** (10) **Pub. No.: US 2003/0158585 A1****Burnett**(43) **Pub. Date: Aug. 21, 2003**(54) **METHOD AND APPARATUS FOR
ELECTROMAGNETIC STIMULATION OF
NERVE, MUSCLE, AND BODY TISSUES****Publication Classification**(51) **Int. Cl.⁷** **A61N 1/00**(52) **U.S. Cl.** **607/2; 600/13**(76) **Inventor: Daniel R. Burnett**, Menlo Park, CA
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MAINE & ASMUS**100 MAIN STREET****P O BOX 3445****NASHUA, NH 03061-3445 (US)**(21) **Appl. No.: 10/266,535**(22) **Filed: Oct. 8, 2002****Related U.S. Application Data**(63) Continuation-in-part of application No. 10/077,434,
filed on Feb. 19, 2002.(60) Provisional application No. 60/380,132, filed on May
6, 2002.(57) **ABSTRACT**

An electromagnetic stimulating system and components configured to provide stimulation to tissues of the human body, including nerves, muscles (including superficial and deep muscles), or other body tissues without significant discomfort to the patient. The system utilizes an ergonomic, body-contoured, and conformable appliance to encase a transducer intended to deliver pulses of electromagnetic stimulation to targeted regions of the body. Transducer configurations include a substantially flat coil, a circumferential uninterrupted solenoid, and a circumferential, substantially solenoidal structure having an openable joint formed by a multiple conductor connector buckle. Index markings appliance allow for repetitive application, for more consistent therapy targeting specific anatomic regions with therapeutic pulsed electromagnetic fields.

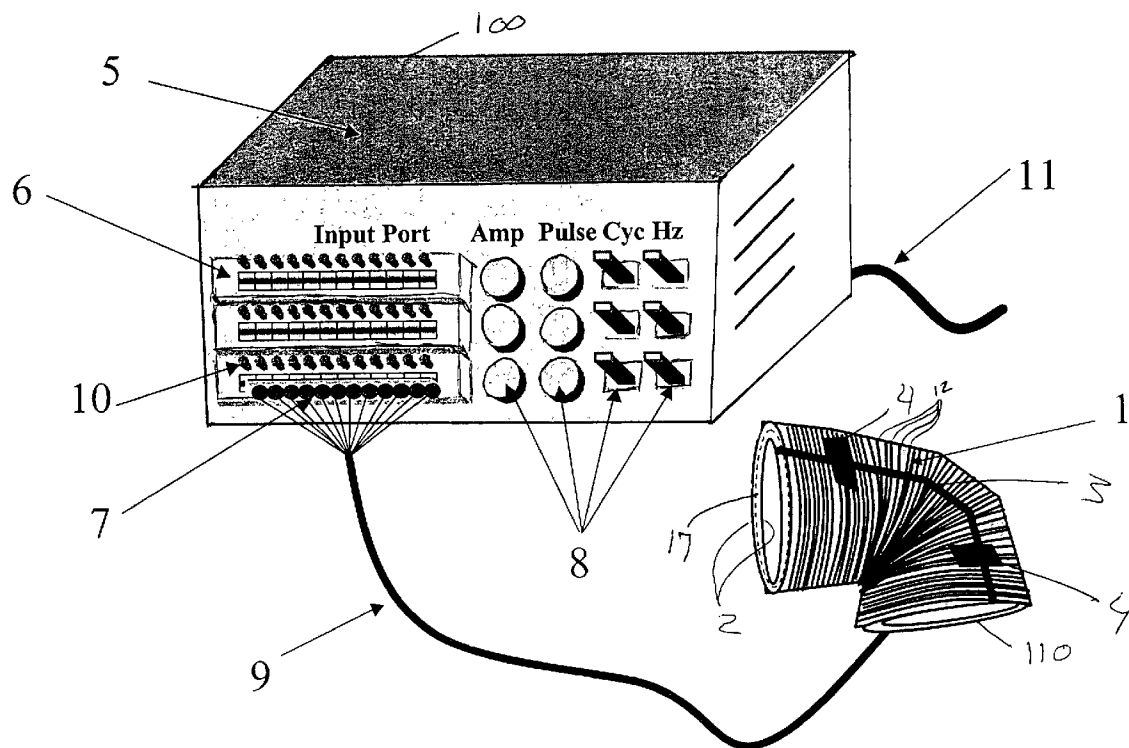
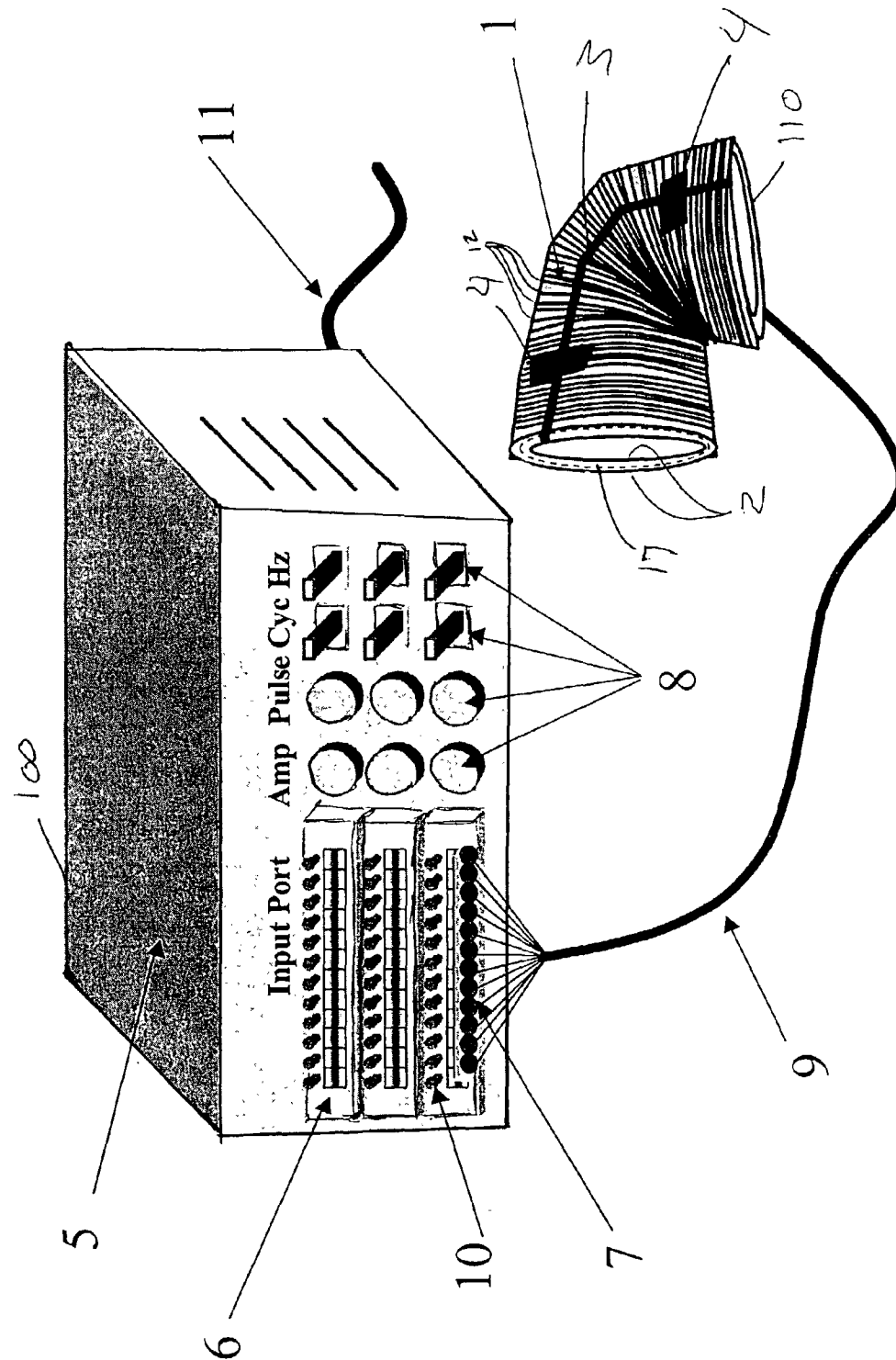
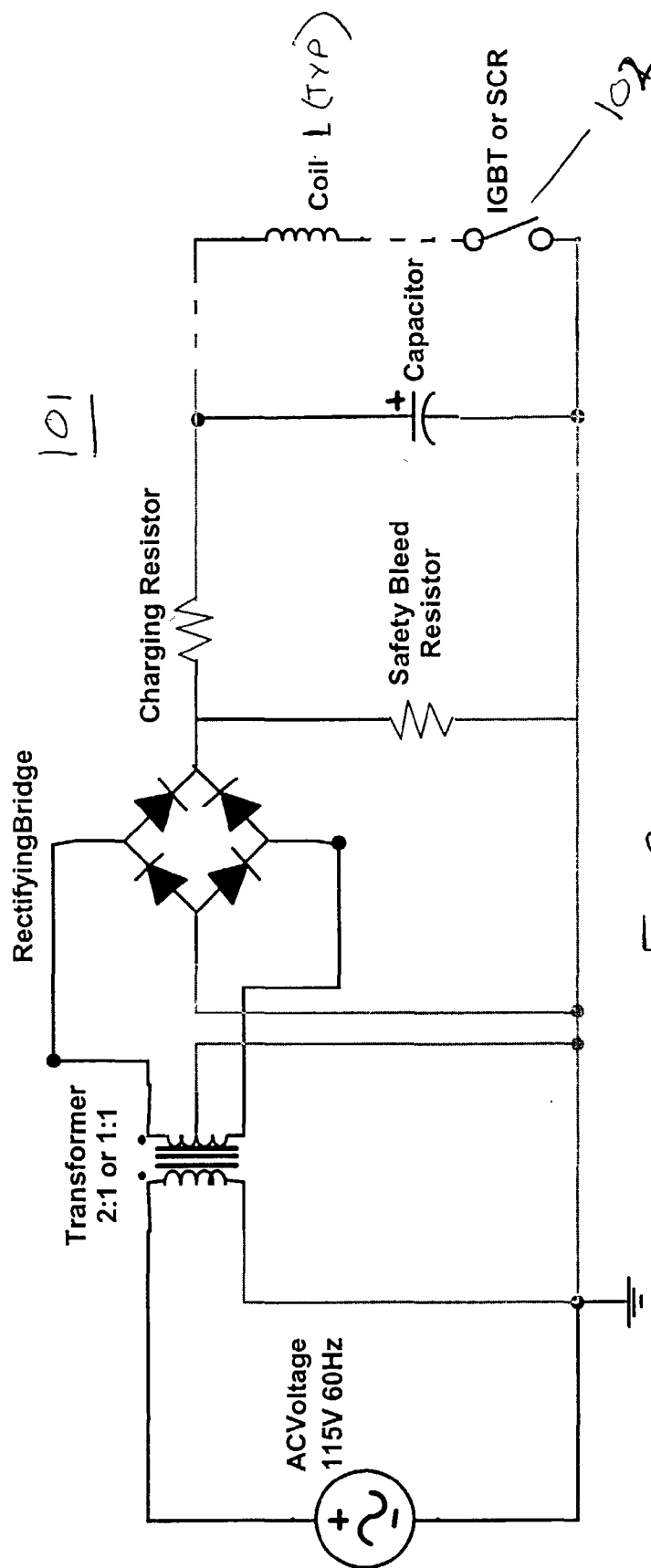


Fig. 1





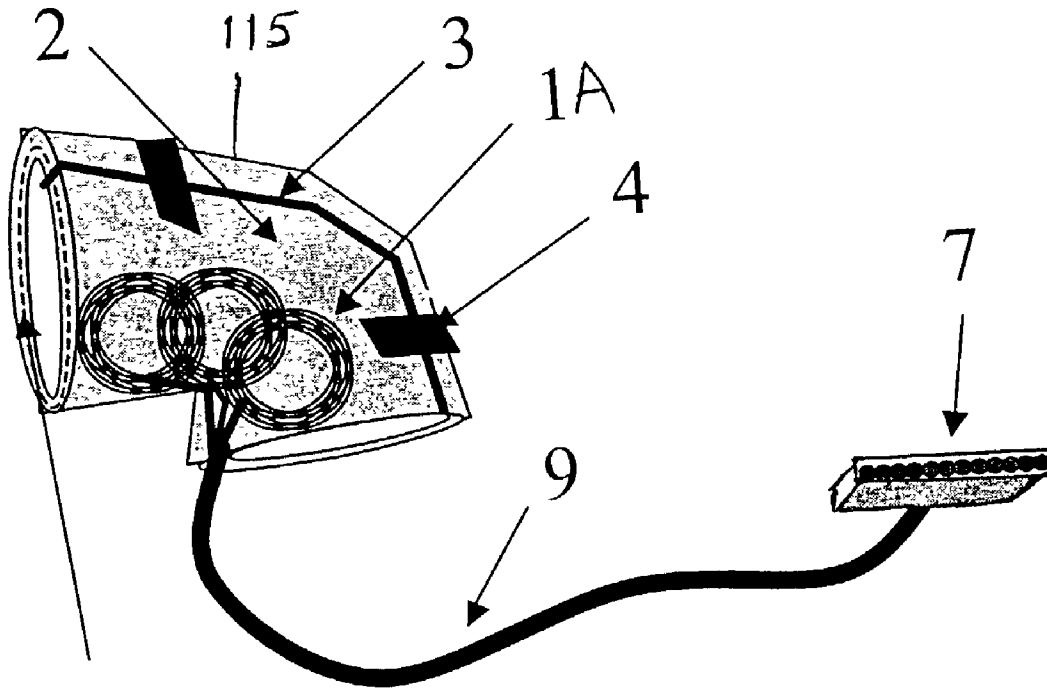


Fig 3

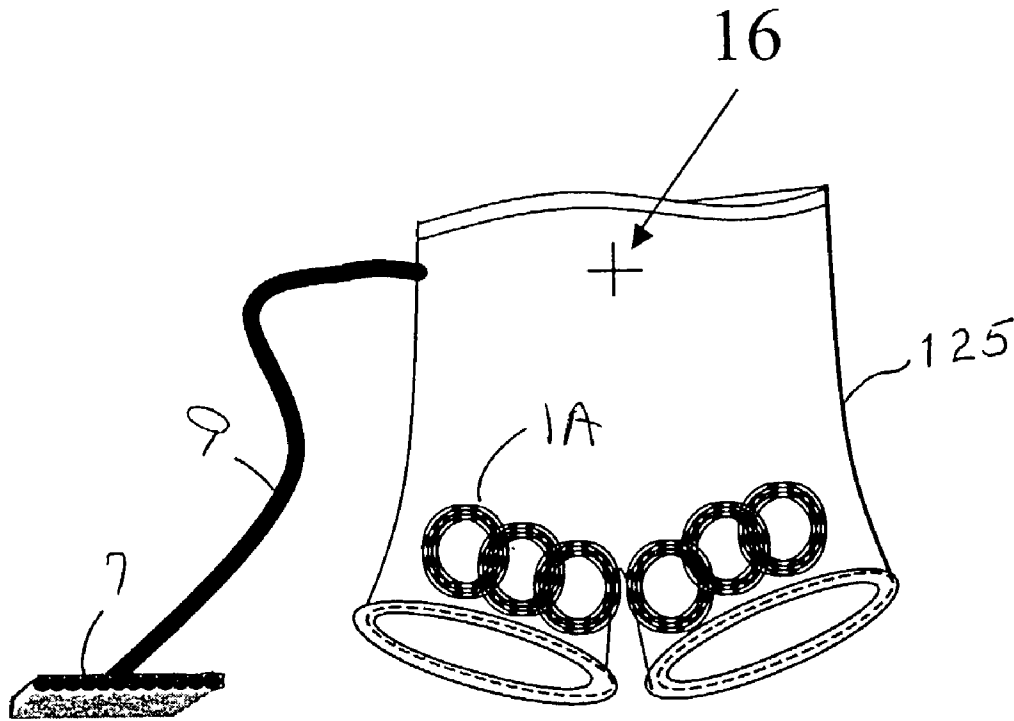


Fig 4

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