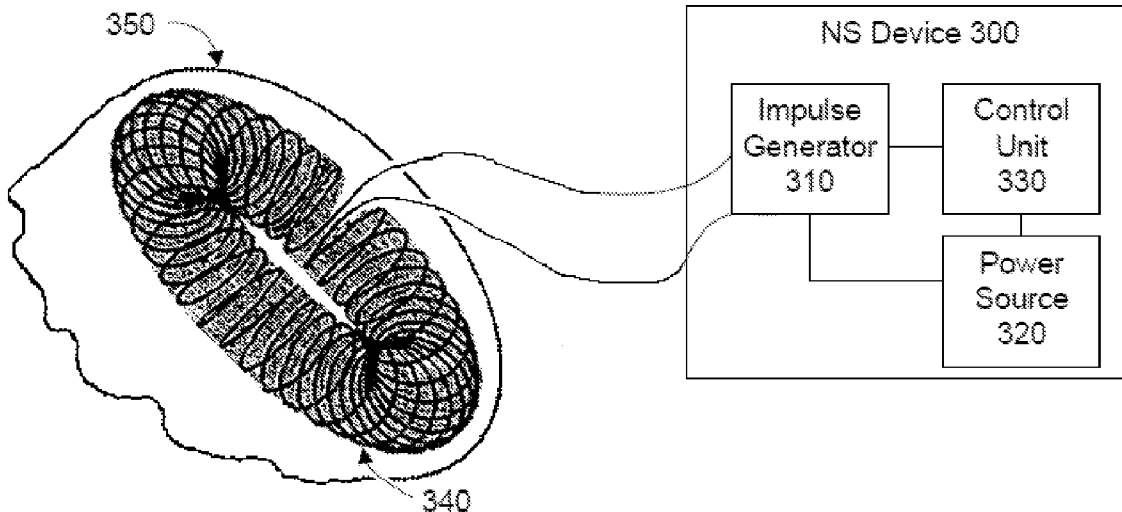




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Simon et al.(10) **Pub. No.: US 2011/0046432 A1**(43) **Pub. Date: Feb. 24, 2011**(54) **NON-INVASIVE TREATMENT OF
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filed on Mar. 20, 2009, which is a continuation-in-part
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now Pat. No. 7,747,324.(60) Provisional application No. 60/736,001, filed on Nov.
10, 2005, provisional application No. 60/736,002,
filed on Nov. 10, 2005, provisional application No.
60/772,361, filed on Feb. 10, 2006, provisional appli-
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A61F 7/00 (2006.01)
A61N 1/36 (2006.01)(52) **U.S. Cl.** **600/14**; 601/46; 601/2; 607/88;
607/96; 607/42(57) **ABSTRACT**

Devices, systems and methods are disclosed for treating bronchial constriction related to asthma, anaphylaxis or chronic obstructive pulmonary disease. The treatment comprises transmitting impulses of energy non-invasively to selected nerve fibers that are responsible for smooth muscle dilation. The transmitted energy impulses, comprising magnetic and/or electrical, mechanical and/or acoustic, and optical and/or thermal energy, stimulate the selected nerve fibers.



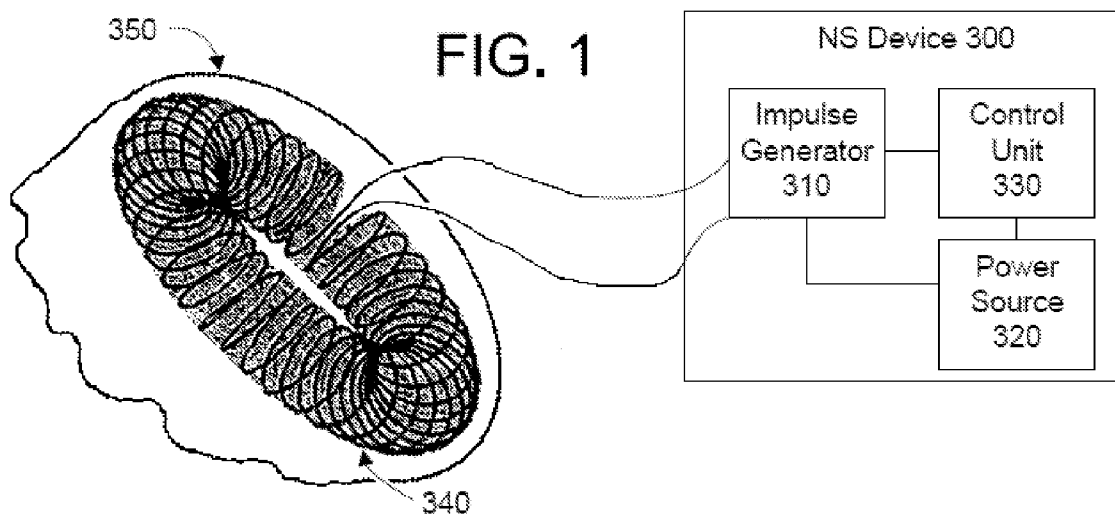


FIG. 2

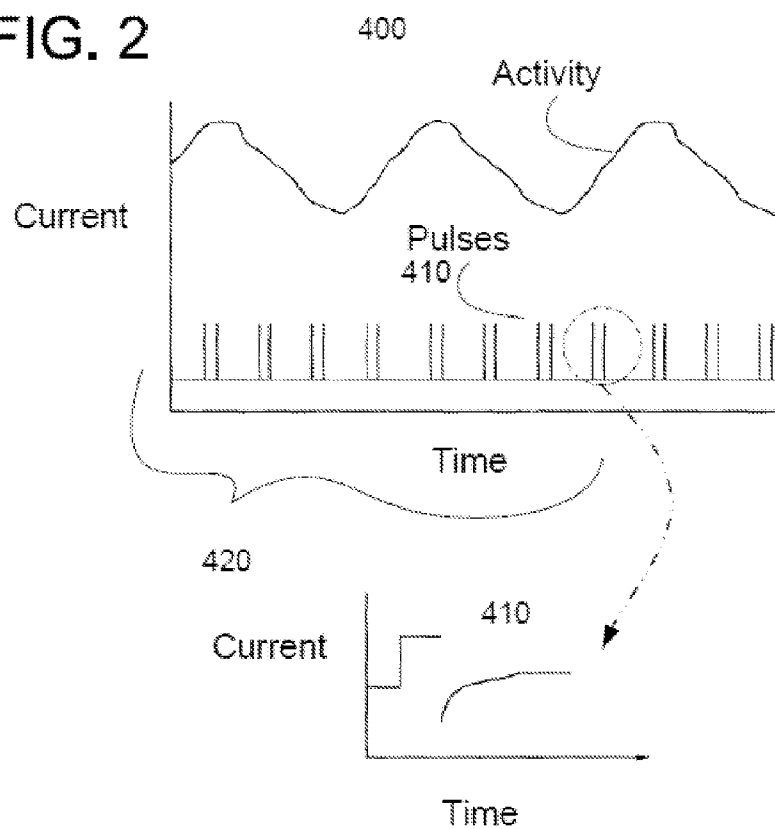


FIG. 3

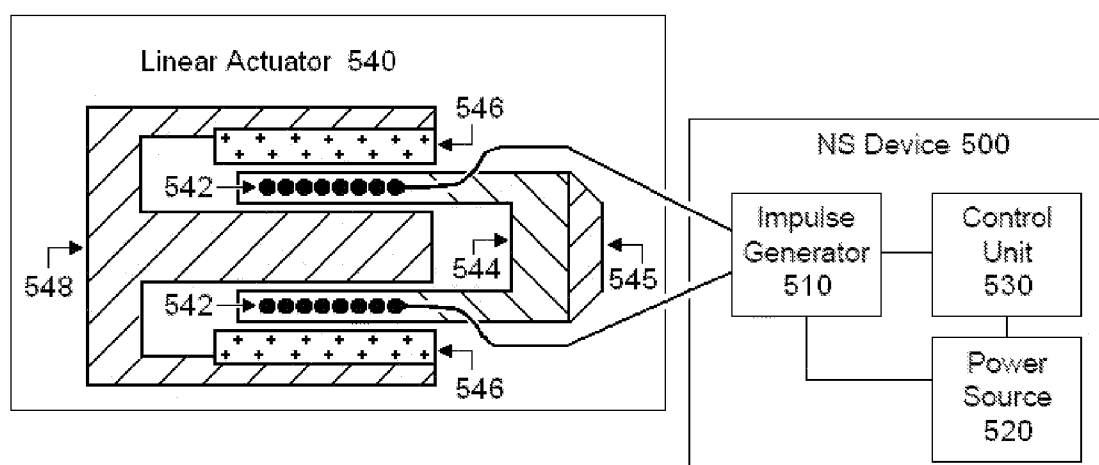


FIG. 4

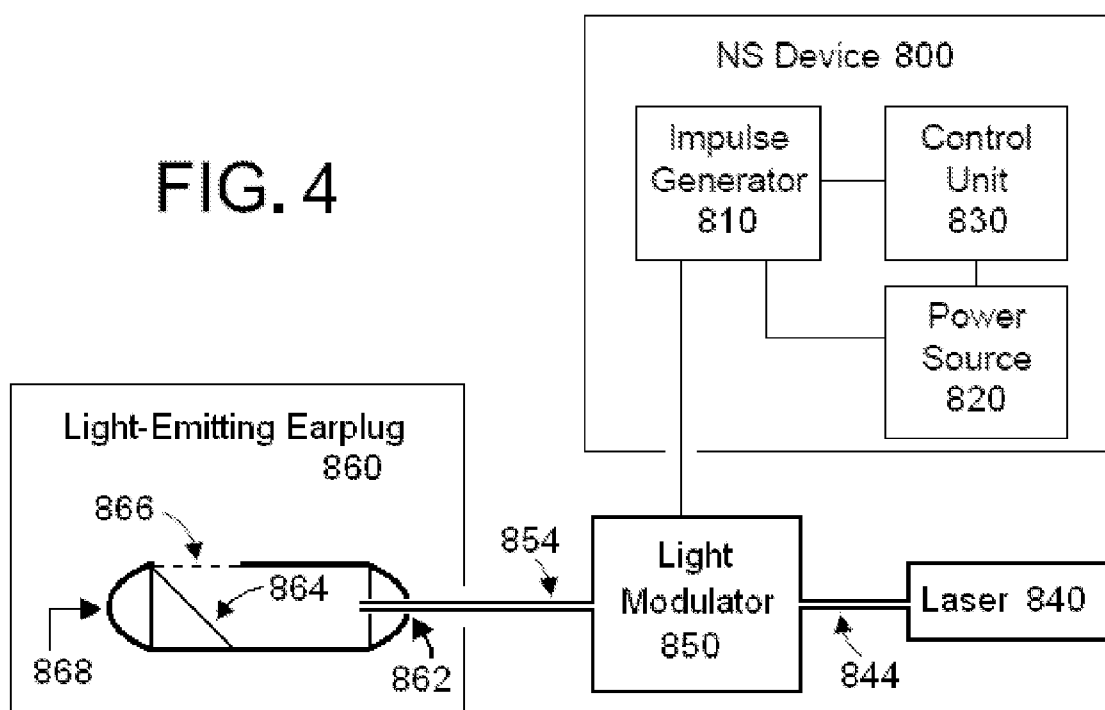


FIG. 5

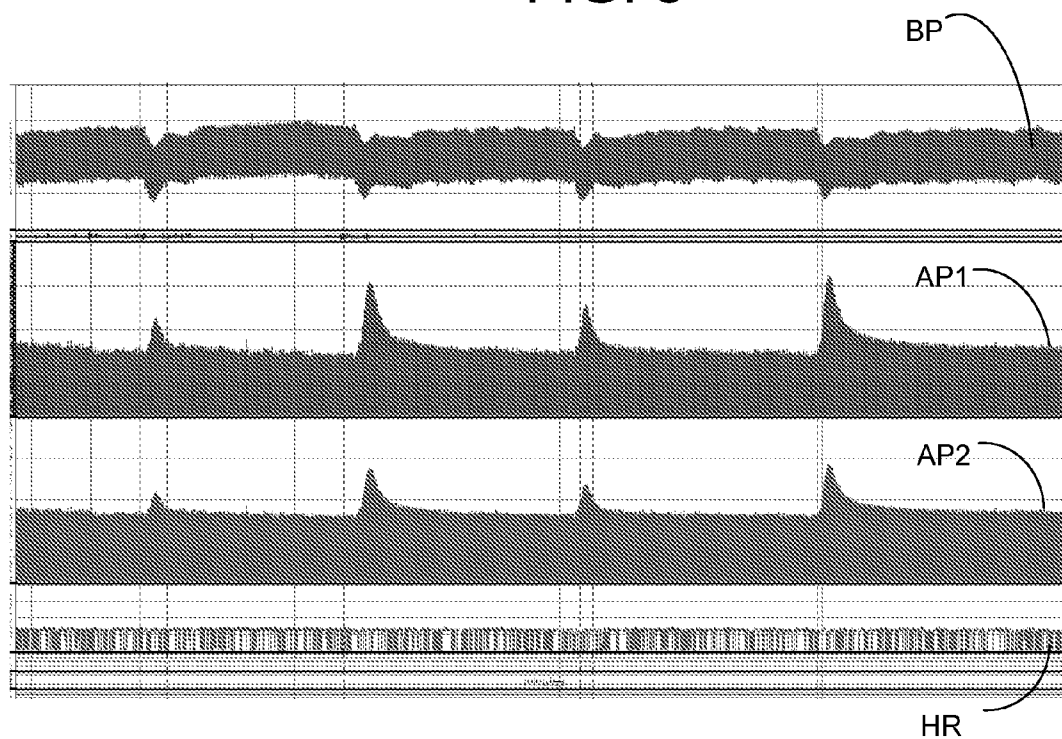
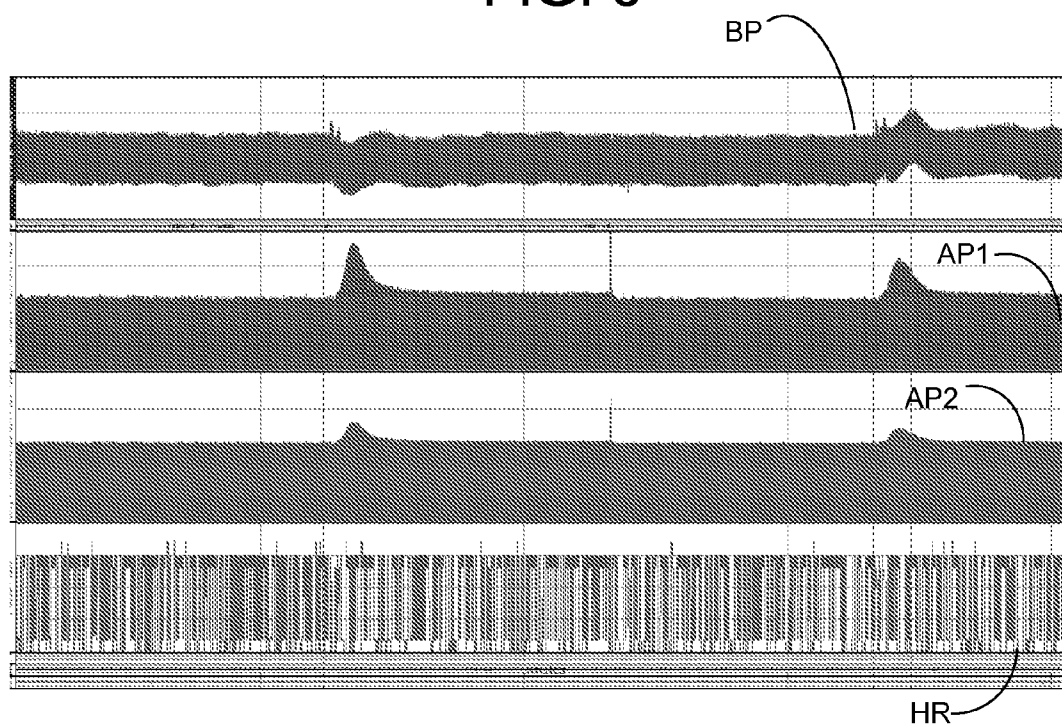


FIG. 6



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