



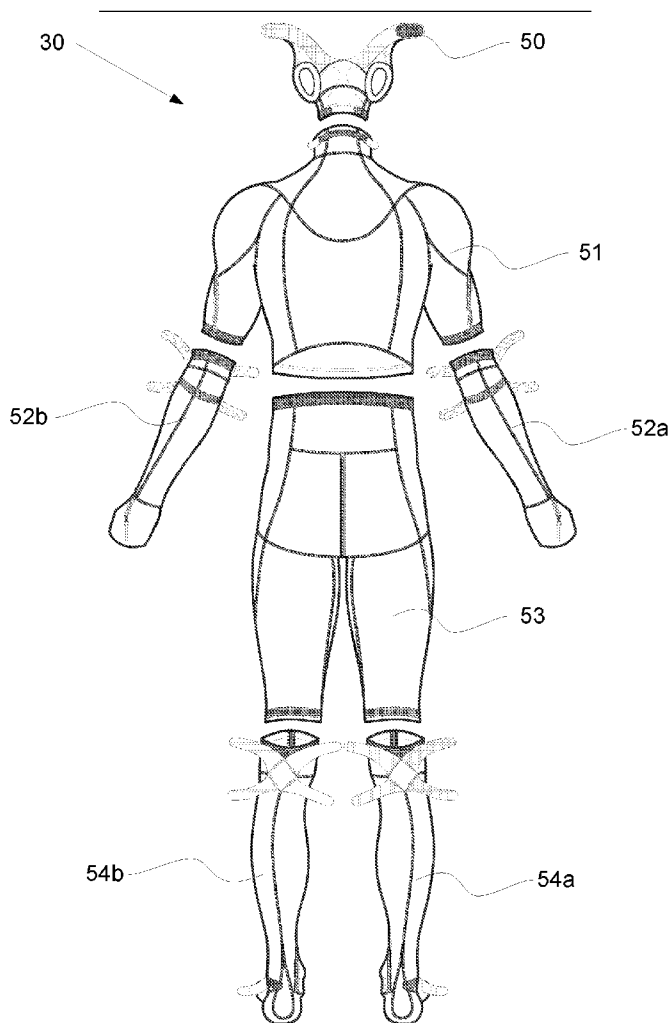
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(19) **United States**(12) **Patent Application Publication**  
**Lundqvist**(10) **Pub. No.: US 2012/0245483 A1**(43) **Pub. Date: Sep. 27, 2012**(54) **SYSTEM AND GARMENT FOR MUSCLE  
RELAXATION OF A SPASTIC MUSCLE**(30) **Foreign Application Priority Data**

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(75) Inventor: **Fredrik Lundqvist, Stockholm  
(SE)****Publication Classification**(73) Assignee: **INERVENTIONS AB, Solna (SE)**(51) **Int. Cl.**  
**A61N 1/36** (2006.01)  
**A61H 1/00** (2006.01)  
**A61B 5/0488** (2006.01)(21) Appl. No.: **13/513,223**(52) **U.S. Cl.** ..... **600/546; 601/15**(22) PCT Filed: **Dec. 2, 2010**(57) **ABSTRACT**(86) PCT No.: **PCT/EP2010/068721**§ 371 (c)(1),  
(2), (4) Date: **Jun. 12, 2012****Related U.S. Application Data**(60) Provisional application No. 61/283,374, filed on Dec.  
3, 2009.

The present invention relates generally to muscle relaxation. Muscle relaxation is desired in many disease states, including spastic paresis and biomechanical and neuromuscular dysfunction. More specifically, the invention relates to a system that causes muscle relaxation by reducing muscular spasticity through the stimulation of joints and muscles. The system consists of a garment with electrodes, a hardware unit and software controlling the stimulation.



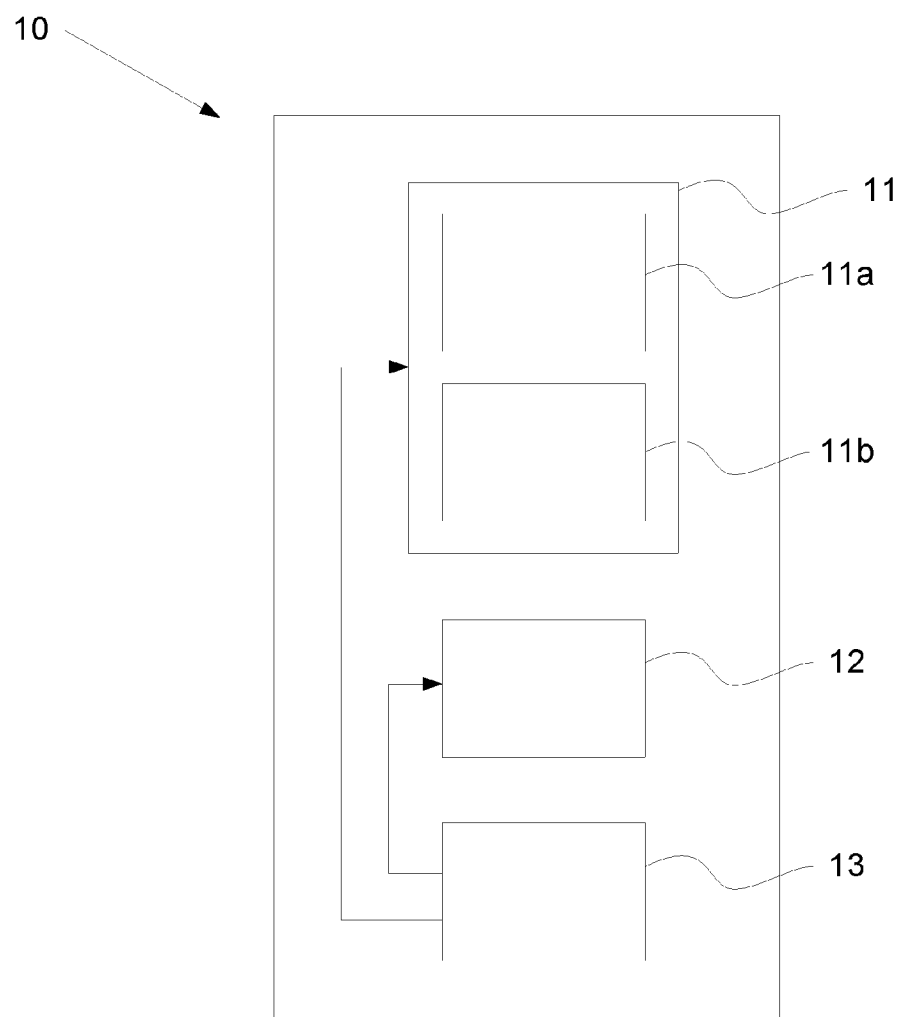


Fig. 1

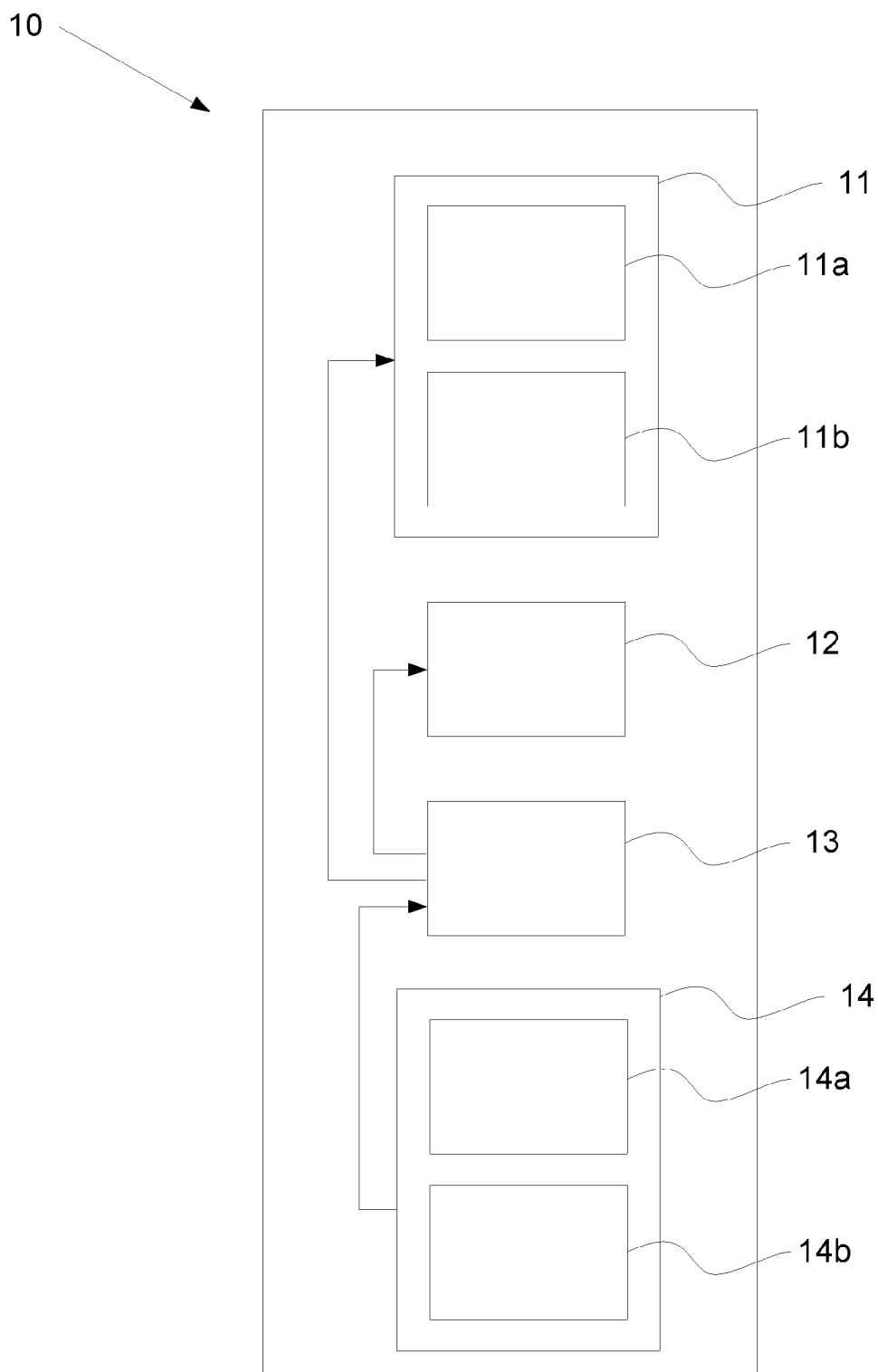


Fig. 2

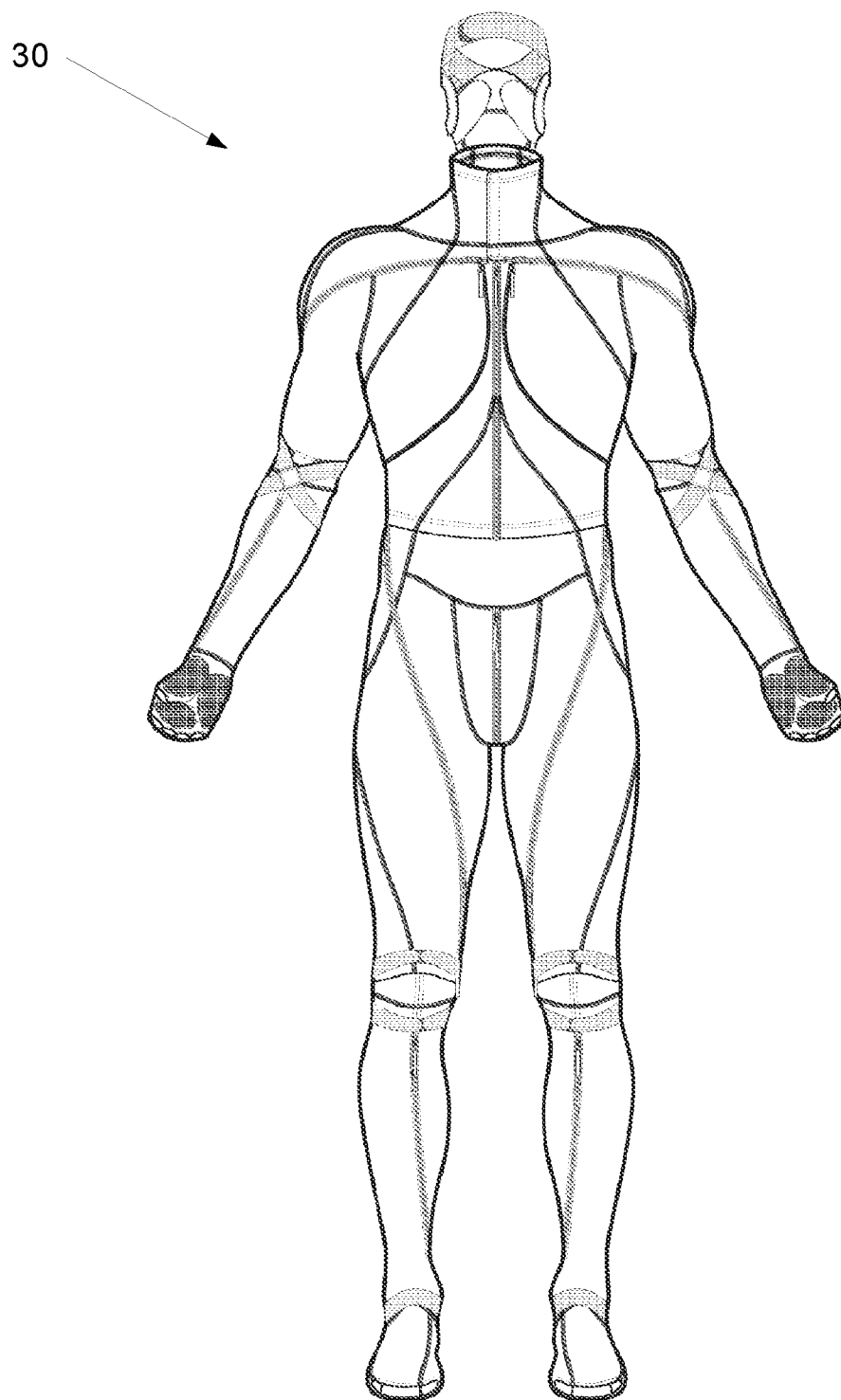


Fig. 3

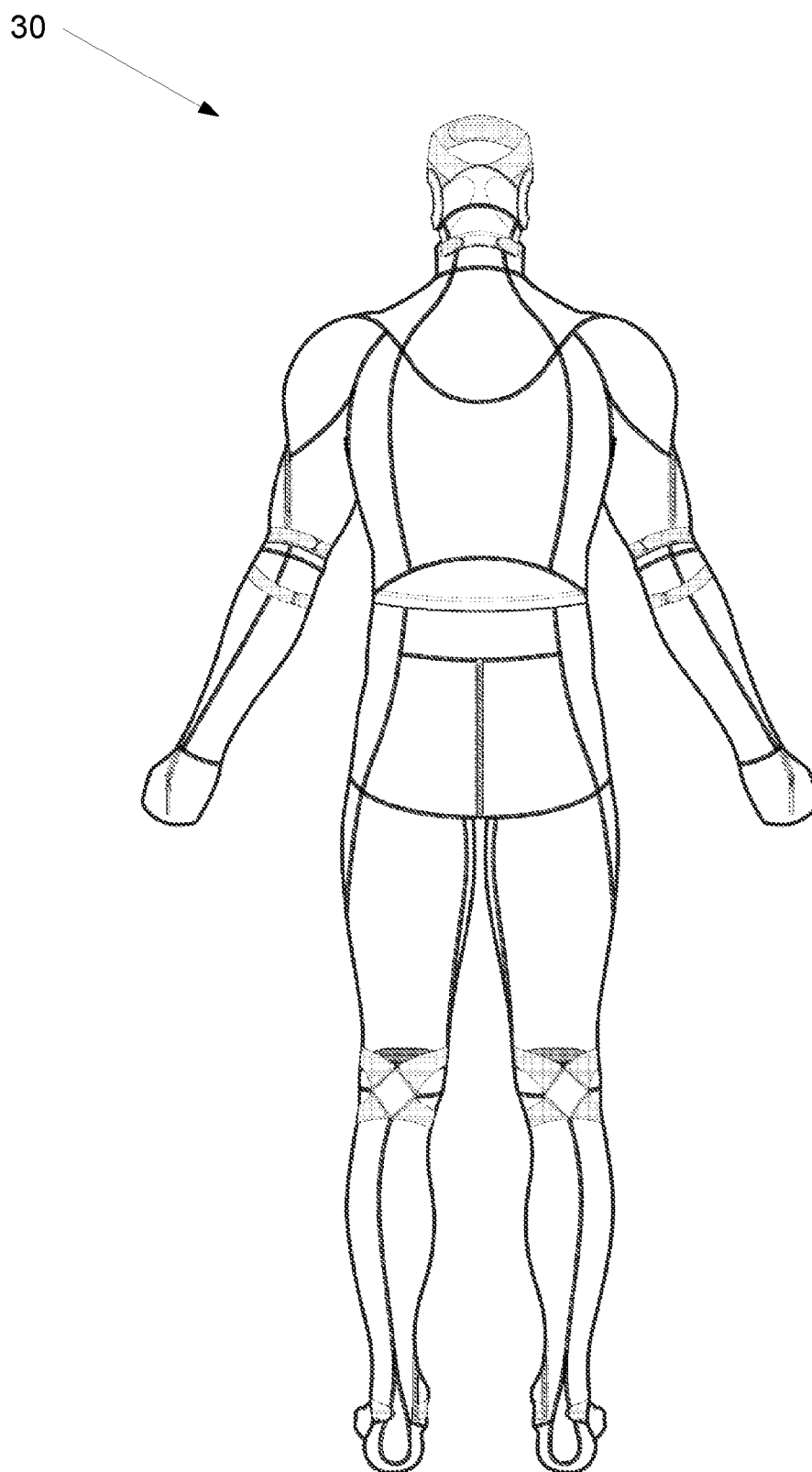


Fig. 4

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