

Title (en)

Method, apparatus, and system of providing sensor-based tactile feedback

Title (de)

Verfahren, Vorrichtung und System zur Bereitstellung einer sensorbasierten taktilen Rückmeldung

Title (fr)

Procédé, appareil et système pour fournir un retour tactile basé sur des capteurs

Publication

**EP 2151657 A2 20100210 (EN)**

Application

**EP 09167119 A 20090803**

Priority

US 18598808 A 20080805

Abstract (en)

A method, system, and apparatus for providing feedback about firing on blueforce personnel (110,120) are provided. A blueforce soldier is armed with a weapon (112,122) that has one or more weapon sensors (350,360,370). The weapon sensors (350,360,370) may provide information about a direction of fire and a firing state of the weapon (112,122). A blueforce-injury-possibility calculator (240) may determine the direction of fire, the firing state, and an injury zone of the weapon (112,122) based on the information from the weapon sensors (350,360,370). The blueforce-injury-possibility calculator (240) may receive location information about one or more blueforce personnel (110,120). The blueforce-injury-possibility calculator (240) may then determine a blueforce-injury possibility based on the injury zone and the location information. Tactile feedback (250) may be provided to the blueforce soldier (110,120) based on the blueforce-injury possibility. The tactile feedback may be provided via a tactile-feedback suit.

IPC 8 full level

**F41A 17/08** (2006.01)

CPC (source: EP US)

**F41A 17/08** (2013.01 - EP US); **F41A 19/08** (2013.01 - EP US)

Citation (applicant)

- ROGER W. CHOLEWIAK; AMY COLLINS: "Vibrotactile Pattern Discrimination and Commnality at Several Body Sites", PERCEPTION AND PSYCHOPHYSICS, vol. 57, no. 5, 1995, pages 724 - 37
- AARON BLOOMFIELD; NORMAN I. BADLER: "A Low Cost Tactor Suit for Vibrotactile Feedback", 1 January 2003

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ES2599959R1; EP3093606A1; FR3053511A1; WO2013178851A1; WO2018002495A1

Designated contracting state (EPC)

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Designated extension state (EPC)

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