

Title (en)

WEAPON AND EQUIPMENT FOR A FENCING DISCIPLINE HAVING ADVANCED HIT DETECTION FUNCTIONALITIES

Title (de)

WAFFE UND AUSRÜSTUNG FÜR FECHTEN MIT FORTGESCHRITTENEN TREFFERERKENNUNGSFUNKTIONEN

Title (fr)

ARME ET ÉQUIPEMENT D'ESCRIME AVEC DES FONCTIONS DE DÉTECTION DU COUP AVANCÉES

Publication

EP 3037139 B1 20180704 (EN)

Application

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Priority

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Abstract (en)

[origin: EP3037139A1] A weapon for a fencing discipline 1 is described, which is usable for sports or games, and which is suitable to be connected to a detection apparatus 2 provided with at least a first 21 and a second apparatus terminal 22. The fencing weapon 1 comprises a percussion element 11, having a percussion portion 12 suitable to deliver a hit on a target X, and an electrical device 10, incorporated in the weapon 1. The aforesaid electrical device 10 comprises a reference terminal Tr, adapted to be connected to the first apparatus terminal 21 to receive a reference electrical potential Vr, and a measuring terminal Tm, adapted to be connected to the second apparatus terminal 22 to supply an electrical measuring potential Vm. The electrical device 10 further comprises a first contact terminal Tc1 and a second contact terminal Tc2, arranged so as to come simultaneously into contact with the target X when the aforesaid percussion portion 12 delivers a hit on the target X. The electrical device 10 is configured to take a signalling condition when it is connected to the detection apparatus 2 and at a hit has been delivered on the target X by the percussion portion 12, wherein the reference terminal Tr is kept at the electrical reference potential Vr and is further electrically connected to the first contact terminal Tc1; the first and the second contact terminals (Tc1, Tc2) are adapted to be electrically connected by means of a target portion X comprised there between so as to apply a detection voltage #V, depending on the electrical reference potential Vr, to such a target portion; and furthermore either the first or the second electrical contact (Tc1, Tc2) is electrically connected to the measuring terminal Tm, so that the electrical measuring potential Vm takes a signalling value S, depending on the electrical reference potential Vr and the detection voltage #V. A fencing equipment and a hit detection method using the aforesaid weapon are also described.

IPC 8 full level

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