Title (en)

ACCELERATION-PROTECTION DEVICE

Title (de)

BESCHLEUNIGUNGSSCHUTZVORRICHTUNG

Title (fr)

DISPOSITIF DE PROTECTION CONTRE LES ACCELERATIONS

Publication

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Application

EP 05746818 A 20050613

Priority

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Abstract (en)

[origin: WO2005123505A1] The invention relates to a device for protecting the human body from the effects of acceleration such as those occurring in high-performance planes during changes of direction during flying. The cuffs (1), which can be shortened with the aid of liquid media, are hydrostatically pressurized. The liquid column is formed by means of flexible tubes (2) and a fluid reservoir arranged at the top. Three cuffs (1) are provided; two encompass the thighs and one surrounds the waist of the wearer. The cuffs (1) are integrated into an underwear suit (4). The cuff (1) around the waist can, for instance, be opened by means of a buckle above a zip fastener (6) for the purpose of putting on and taking off . The close-fitting cuffs (1) with a shortenable inner periphery cut the lower body area off from critical Gz acceleration forces when they occur and thus prevent blood from flowing to lower body parts. As a result it is possible to reduce the speed at which blood pressure falls at the level of the head, which is responsible for the provision of oxygen, thereby preventing a lack of consciousness caused by the force Gz. The cuff (1) can also be operated with compressed air.

IPC 8 full level

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