

Title (en)
ACCELERATION PROTECTION SUIT

Title (de)
BESCHLEUNIGUNGS-SCHUTZANZUG

Title (fr)
VETEMENT DE PROTECTION CONTRE LES EFFETS DE L'ACCELERATION

Publication
EP 0983193 A1 20000308 (DE)

Application
EP 99913056 A 19990420

Priority
• CH 9900159 W 19990420
• CH 90098 A 19980420

Abstract (en)
[origin: WO9954203A1] The active part of the suit is partially comprised of layers (3, 4) one of which facing the body and the other facing away from the body. Both layers are made of a gas-tight, slightly stretchable textile material and are connected to one another at connection points (6) by gluing, heat sealing or by sewing. This results in the production of cavities (5) which are connected to one another via valves (18) and which can be placed under gas pressure. Connecting parts (7) which only transfer tensile stress are arranged between areas which are comprised of the layers (3, 4) - strips (11, 12) -. When the cavities (5) are placed under a gas pressure which is proportional to the z-acceleration, the suit builds up an application pressure over the tensile stress. The application pressure has a compensating effect thus relieving the pilot's body from the effects of such accelerations. The compensating pressure can be set to the hydrostatic pressure, said hydrostatic pressure being proportional to the acceleration, by appropriately selecting the width of the strips (11, 12) in conjunction with the radius of the covered body parts.

IPC 1-7
B64D 10/00

IPC 8 full level
A41D 13/02 (2006.01); **B64D 10/00** (2006.01); **A41D 13/00** (2006.01)

CPC (source: EP KR US)
A41D 13/00 (2013.01 - KR); **A41D 27/02** (2013.01 - KR); **B64D 10/00** (2013.01 - EP KR US); **A41D 2300/32** (2013.01 - KR);
A41D 2300/322 (2013.01 - KR); **A41D 2400/44** (2013.01 - KR); **B64D 2010/002** (2013.01 - EP KR US); **B64D 2010/007** (2013.01 - EP KR US)

Cited by
WO2005123504A1; WO2018162316A1

Designated contracting state (EPC)
AT BE CH DE DK ES FI FR GB GR IT LI NL PT SE

DOCDB simple family (publication)
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DOCDB simple family (application)
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