

Title (en)
SYSTEMS AND METHODS FOR MODULAR INFLATABLE AVALANCHE PROTECTION

Title (de)
SYSTEME UND VERFAHREN FÜR MODULAREN AUFBLASBAREN LAWINENSCHUTZ

Title (fr)
SYSTÈMES ET PROCÉDÉS POUR LA PROTECTION D'AVALANCHE GONFLABLE MODULAIRE

Publication
EP 3146999 A1 20170329 (EN)

Application
EP 16189280 A 20160916

Priority
US 201514860772 A 20150922

Abstract (en)
The application relates to an avalanche safety system (100, 210, 300) including an inflatable chamber (140, 220, 340), activation system (190, 390), inflation system (160, 360), harness (120, 320), and a container (400). The inflatable chamber is a three-dimensionally, partially enclosed region having an inflated state (Figs. 7C, 14D) and a compressed state (Figs. 7A, 14A). The inflated state may form a particular three dimensional shape configured to protect the use from impact and/or provide flotation during an avalanche. The inflation system (160) is configured to transmit ambient air into the inflatable chamber (140). The harness (120) may be a backpack that enables a user (200) to transport the system (100) while engaging in activities that may be exposed to avalanche risk. The container (400) is releasably coupled to the harness (120, 320) including a coupled and a separate state. The container (400) independently includes a container chamber (408) that is selectively enclosable by a container opening (406, 407). The releasable coupling between the container and the harness may include a periphery zipper type coupling.

IPC 8 full level
A62B 33/00 (2006.01); **A45F 3/04** (2006.01)

CPC (source: EP)
A62B 33/00 (2013.01); **A45F 3/10** (2013.01); **A45F 2003/045** (2013.01)

Citation (search report)
• [Y] EP 2700433 A2 20140226 - BLACK DIAMOND EQUIPMENT AG [CH]
• [Y] EP 1935457 A1 20080625 - ASCHAUER PETER [DE]
• [A] US 2013149923 A1 20130613 - WALKER JOSEPH BENJAMIN [US], et al

Cited by
WO2024042032A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 3146999 A1 20170329

DOCDB simple family (application)
EP 16189280 A 20160916