

Title (en)
Systems and methods for inflatable avalanche protection with reinflation

Title (de)
Systeme und Verfahren für (wieder-) aufblasbaren Lawinenschutz

Title (fr)
Systèmes et procédés de protection d'avalanche gonflable avec regonflage

Publication
EP 2700433 A3 20141217 (EN)

Application
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Abstract (en)
[origin: EP2700433A2] One embodiment of the present invention relates to an avalanche safety system (100) having an inflatable chamber (140), activation system, inflation system (160), and a harness (120). The inflatable chamber (140) is a three-dimensionally, partially enclosed region having an inflated state and a compressed state. The inflated state may form a particular three dimensional shape configured to protect the user from burial and provide flotation during an avalanche. The activation system is configured to receive a user-triggered action to activate the system. The activation system also includes a reinflation algorithm configured to automatically reactivate the inflation system after a period of time to maintain the inflated state of the inflatable chamber. The inflation system may include an air intake (180), battery (166), fan (164), and internal airway channel (168). The inflation system is configured to transmit ambient air into the inflatable chamber.

IPC 8 full level
A62B 33/00 (2006.01)

CPC (source: EP)
A62B 33/00 (2013.01)

Citation (search report)
• [X] US 2012060267 A1 20120315 - BLENKARN MICHAEL DOUGLAS [CA], et al
• [A] WO 0032274 A1 20000608 - AVAGEAR INC [US], et al
• [A] US 2010184343 A1 20100722 - PAYNTON DWAYNE RALPH [CA], et al
• [A] US 6220909 B1 20010424 - ASCHAUER PETER [DE], et al
• [A] US 2007056500 A1 20070315 - BECK RALPH F [US]
• [A] US 2010112880 A1 20100506 - ASCHAUER PETER [DE]
• [A] US 4920674 A 19900501 - SHAEFFER HENRY W [US]

Cited by
EP3202462A1; EP3146999A1; WO2017137244A1; WO2024047029A1; DE102022123470A1

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