

Title (en)

Entrance and egress system for protective shelters and garments.

Title (de)

Ein- und Ausgangsanordnung für schützende Unterstände und Kleidungsstücke.

Title (fr)

Système d'entrée et de sortie pour des abris et des vêtements protecteurs.

Publication

EP 0097514 A1 19840104 (EN)

Application

EP 83303536 A 19830620

Priority

- US 39010082 A 19820621
- US 45265882 A 19821223

Abstract (en)

A method and apparatus is provided for attaching and detaching two panels (10A & 10B), each of which has an opening defined by mating parts of a continuous flexible fastener strip. The panels may be part of protective enclosures, one of which can be portable (a garment or a mobile unit), and which afford a protective environment to persons or things therewithin. A first opening is formed in one panel and a second opening in the other panel, the openings being co-extensive when in abutting position. Primary fasteners, such as zippers (12A & 12B), are attached to each of the openings for repeated opening and closing thereof. Secondary covering fasteners, including flaps (14A & 14B) with fabric hook-latch material, located on the exterior of the panels surround and cover the primary fasteners. The fasteners interengage to fasten the panels together with the openings aligned, thus forming a passage between the interiors of said enclosures.

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IPC 8 full level

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CPC (source: EP)

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Citation (search report)

- [A] DE 1014492 C
- [A] GB 1415951 A 19751203 - KERNFORSCHUNG GMBH GES FUER
- [A] GB 2020164 A 19791114 - ATOMIC ENERGY AUTHORITY UK
- [A] US 2664890 A 19540105 - EARLE WALLACE WILLIAM
- [A] US 3526066 A 19700901 - HAGAR CHARLES E, et al
- [AD] GB 1000674 A 19650811 - SPEMBLY LTD
- [AD] US 3355230 A 19671128 - TREXLER PHILIP C
- [AD] US 3501213 A 19700317 - TREXLER PHILIP C
- [AD] US 4302848 A 19811201 - OTSUKA KATSUYUKI, et al
- [AD] US 2229216 A 19410121 - DAVIS MARINSKY
- [AD] US 4308644 A 19820105 - BROWN ALEXANDER M

Cited by

EP0290876A1; CN115226923A; EP0648438A3; CN111373488A; EP0226335A1; US4866833A; DE102018105676A1; WO2019175121A1; DE102018105676B4; DE102017010737A1; WO2019101664A1; US11389674B2

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