

Title (en)

ENTRANCE AND EGRESS SYSTEM FOR PROTECTIVE SHELTERS AND GARMENTS

Publication

EP 0097514 B1 19890125 (EN)

Application

EP 83303536 A 19830620

Priority

- US 39010082 A 19820621
- US 45265882 A 19821223

Abstract (en)

[origin: EP0097514A1] 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.

IPC 1-7

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IPC 8 full level

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CPC (source: EP)

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Cited by

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

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