

Title (en)
SELF-INFLATING MEMBER AND PROTECTIVE WRAPPING MATERIAL

Title (de)
SELBSTAUFBLASENDES ELEMENT UND SCHUTZVERPACKUNGSMATERIAL

Title (fr)
ÉLÉMENT AUTOGONFLANT ET MATÉRIAU D'EMBALLAGE DE PROTECTION

Publication
EP 3878767 A1 20210915 (EN)

Application
EP 20162296 A 20200311

Priority
EP 20162296 A 20200311

Abstract (en)
A self-inflating member (10) is provided. The self-inflating member comprises a first flexible layer (1), a second flexible layer (2), a contracting element (5), a check valve (3) and a first supporting element (4a). The first and second flexible layers are connected to each other such that a cavity is formed between the first and second flexible layers. At least one of the first and second flexible layer comprises the check valve, such that the check valve creates a fluid connection between the cavity and the ambient environment. The contracting element is connected to the first and second flexible layers in at least a first and a second position (L', L''), such that contraction of the contracting element moves the first and second positions closer to each other. The first supporting element assists in supporting at least one of the first and second flexible layers, such that the cavity is expanded, which causes fluid from the ambient environment to flow through the check valve and into the expanded cavity.

IPC 8 full level
B65D 81/03 (2006.01); **B65D 81/05** (2006.01)

CPC (source: EP US)
B65D 81/03 (2013.01 - EP US); **B65D 81/052** (2013.01 - EP US)

Citation (search report)
• [A] US 2019225406 A1 20190725 - KIM HO CHIL [KR]
• [A] FR 2389547 A1 19781201 - RASKIN CLAUDE [FR]

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 3878767 A1 20210915; CA 3174763 A1 20210916; EP 4118007 A1 20230118; US 2023103373 A1 20230406; WO 2021180859 A1 20210916

DOCDB simple family (application)
EP 20162296 A 20200311; CA 3174763 A 20210311; EP 2021056213 W 20210311; EP 21710310 A 20210311; US 202117909936 A 20210311