

Title (en)
SYSTEM AND DEVICE FOR STARTING A MISSILE

Title (de)
SYSTEM UND VORRICHTUNG ZUM STARTEN EINES FLUGKÖRPERS

Title (fr)
SYSTÈME ET DISPOSITIF DE DÉMARRAGE D'UN MISSILE

Publication
EP 3736523 C0 20230719 (DE)

Application
EP 20166997 A 20200331

Priority
DE 102019003322 A 20190510

Abstract (en)
[origin: US2020355465A1] A launch apparatus for launching a missile includes a launching tube extending in a longitudinal direction. The launching tube has an outlet opening at a first end. An acceleration device arranged in the region of a second end of the launching tube includes a gas generator to generate a gas mass flow, and a bag formed from a textile fabric. The bag is coupled to a diffuser of the gas generator via an end opening and inflates longitudinally by the gas mass flow generated by the gas generator to accelerate the missile. The bag has a gas permeability within a range of between 10 l dm⁻² min⁻¹ and 30 l dm⁻² min⁻¹. When inflated, a cross section of the bag alternatively or additionally tapers from the end opening to a minimal cross section along the longitudinal direction and increases in size to an end opposite the end opening.

IPC 8 full level
F41F 3/04 (2006.01); **F41B 11/60** (2013.01); **F41B 11/62** (2013.01); **F42B 3/04** (2006.01); **F42B 29/00** (2006.01)

CPC (source: EP US)
F41B 11/60 (2013.01 - EP); **F41B 11/80** (2013.01 - US); **F41F 3/04** (2013.01 - EP US); **F42B 3/045** (2013.01 - EP); **F42B 29/00** (2013.01 - EP)

Cited by
FR3133051A1; WO2023161729A1

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

Participating member state (EPC – UP)
AT BE BG DE DK EE FI FR IT LT LU LV MT NL PT SE SI

DOCDB simple family (publication)
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DOCDB simple family (application)
EP 20166997 A 20200331; DE 102019003322 A 20190510; IL 27412820 A 20200422; US 202016870508 A 20200508