

Title (en)  
AERIAL FIRE SUPPRESSION SYSTEM

Title (de)  
BRANDUNTERDRÜCKUNGSSYSTEM AUS DER LUFT

Title (fr)  
SYSTÈME AÉRIEN D'EXTINCTION D'INCENDIE

Publication  
**EP 3496821 B1 20230503 (EN)**

Application  
**EP 16912824 A 20160809**

Priority  
US 2016046191 W 20160809

Abstract (en)  
[origin: WO2018030999A1] An embodiment of a fire suppression apparatus for fighting fires from an aerial vehicle is disclosed having a foam and water held in separate containers that when mixed forms a fire retardant in the separate water container, a pump driven by a first electric motor, the pump including an air induction valve positioned at the pump inlet where air and the fire retardant are drawn into the inlet and pressurized simultaneously by the pump, a primer pump driven by a second electric motor to prime the inlet with the fire retardant before starting the pump, an inverter to control startup of the first electric motor, and an aimable boom connected to the pump by a conduit, the boom including a nozzle on a distal end of the boom from which the pressurized water/foam/air fire retardant is dispensed toward a target. Vertical mount plates can attach the apparatus to opposite sides of the helicopter.

IPC 8 full level  
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CPC (source: EP)  
**A62C 3/0242** (2013.01); **A62C 5/02** (2013.01)

Citation (examination)  
• US 2006207659 A1 20060921 - SHAEFER HENRY [US], et al  
• ANONYMOUS: "Pump - Wikipedia", 25 July 2016 (2016-07-25), XP055758154, Retrieved from the Internet <URL:https://en.wikipedia.org/w/index.php?title=Pump&oldid=731522745#Priming\_a\_pump> [retrieved on 20201209]

Designated contracting state (EPC)  
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DOCDB simple family (publication)  
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