

Title (en)  
IMPROVED SELF-PROPELLED GUN SYSTEM

Title (de)  
VERBESSERTES SELBSTFAHRENDES WAFFENSYSTEM

Title (fr)  
SYSTÈME AMÉLIORÉ DE PISTOLET AUTOPROPULSÉ

Publication  
**EP 4283240 A1 20231129 (EN)**

Application  
**EP 22275070 A 20220527**

Priority  
EP 22275070 A 20220527

Abstract (en)  
A self-propelled gun system (10) comprising a chassis (200) to which is mounted a gun barrel (300) having a gun barrel axis (302). The system also has a chassis suspension system (400) comprising a first wheel arm (402) extending away from the chassis (200) to a first wheel (404), the first wheel (404) being rotatably mounted on the first wheel arm (402), the first wheel (404) configured for engagement with, and travelling along, a support surface (500) to support the chassis (200) a distance (Dz) apart from the support surface (500). There is also provided a recoil mitigation system (900) comprising a recoil support leg (902) which extends away from the chassis (200) to a foot end (904), the foot end (904) operable to engage with the support surface (500) during firing of a projectile (340) from the gun barrel (300). The foot end (904) of the recoil support leg (902) is operable to be spaced apart from the support surface (500) when the gun system (10) is in transit. The recoil support leg (902) is configured to react against recoil force (Fr) in the z-axis from the firing of a projectile (340) from the gun barrel (300). The recoil mitigation system (900) further comprising a wheel brake control device (600) configured for applying a braking force to the chassis first wheel (404) after the firing of a projectile (340) from the gun barrel (300) and after the rotatable first wheel (404) has started rotating along the support surface (500) in response to the firing of a projectile (340) from the gun barrel (300).

IPC 8 full level  
**F41A 23/28** (2006.01); **F41A 23/34** (2006.01); **F41A 23/56** (2006.01)

CPC (source: EP)  
**F41A 23/28** (2013.01); **F41A 23/34** (2013.01); **F41A 23/56** (2013.01)

Citation (search report)  
• [A] US 6000313 A 19991214 - BECKER WILFRIED [DE], et al  
• [A] GB 158023 A 19210203 - HOLT MFG CO

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

Designated validation state (EPC)  
KH MA MD TN

DOCDB simple family (publication)  
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