

Title (en)
Improvements in or relating to sub-projectiles for discarding sabot practice shot.

Title (de)
Übungsgeschoss mit ablösbarem Treibkäfig.

Title (fr)
Projectile d'entraînement à sabot séparable.

Publication
EP 0090888 A1 19831012 (EN)

Application
EP 82301142 A 19820305

Priority
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Abstract (en)
The invention relates to a sub-projectile for a discarding sabot practice shot, and provides a close ballistic match to a service sub-projectile whilst having a limited range for use on small firing ranges. The invention comprises a central longitudinal rod (10) attached to a finned tail member (11), and two annular cylindrical body portions (13 and 14) slidably assembled on the rod (10) and secured by a nose member (15) attached to the rod (10) remotely from the tail member (11). Thermally deformable separating means are provided which are resiliently biased and actuatable after a given time of flight by aerodynamic heating to initiate break-up of the sub-projectile and limit its range. The separating means may be a joint between the rod and nose member which fails at a certain temperature, supplemented if necessary by a structurally weak annular portion (22) of the nose member (15) having a thermal failure threshold.

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F42B 13/20

IPC 8 full level
F42B 8/14 (2006.01)

CPC (source: EP)
F42B 8/14 (2013.01)

Citation (search report)

- [YD] GB 2010452 A 19790627 - RHEINMETALL GMBH
- [Y] DE 734429 C 19430415 - SKODA KP, et al
- [XE] GB 2084703 A 19820415 - SECR DEFENCE
- [XE] US 4334478 A 19820615 - GOES MICHAEL J, et al
- [A] DE 2846998 A1 19800508 - FRITZ WERNER IND AUSRUESTUNG
- [AD] US 4140061 A 19790220 - CAMPOLI RALPH F
- [AD] US 3747533 A 19730724 - ROSSMANN R

Cited by
US5001986A; JPS6375494A; EP0253423A1; EP0987513A3; GB2138549A; US4624187A; US6747930B1; US9157713B1

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