

Title (en)  
TUBULAR PROJECTILES

Publication  
**EP 0398390 A3 19910502 (EN)**

Application  
**EP 90112207 A 19871127**

Priority  
• EP 90112207 A 19871127  
• GB 8628514 A 19861128

Abstract (en)  
[origin: EP0398390A2] A tubular projectile suitable for use in training ammunition comprises a hollow tube having formed in the rear end (5) of the tubular wall thereof a recess (11) in which is embedded a tracer material comprising a flexible polymer bonded pyrotechnic composition eg in the form of a cylindrical sleeve. The projectile may be sabot launched. Constructions are described for igniting the tracer material directly or indirectly from the gases produced by burning of the main propellant charge when the projectile is fired from a gun, e.g. the RARDEN Gun of the Applicants. Example of suitable tracer material and techniques for filling the said recess with them are also described.

IPC 1-7  
**F42B 12/38**; F42B 10/34; C06B 45/10; C06C 15/00

IPC 8 full level  
**C06B 27/00** (2006.01); **F42B 10/34** (2006.01); **F42B 12/38** (2006.01)

CPC (source: EP)  
**C06B 27/00** (2013.01); **F42B 10/34** (2013.01); **F42B 12/382** (2013.01)

Citation (search report)  
• [YD] US 3726495 A 19730410 - GAWLICK H, et al  
• [Y] US 4094711 A 19780613 - RAMNARACE JAWAHARLAL  
• [A] US 4495870 A 19850129 - BELL FRANK H [US]  
• [A] DE 8234827 U1 19840223

Cited by  
FR2678055A1

Designated contracting state (EPC)  
AT BE CH DE FR GB IT LI NL SE

DOCDB simple family (publication)  
**EP 0398390 A2 19901122; EP 0398390 A3 19910502**

DOCDB simple family (application)  
**EP 90112207 A 19871127**