New application Patent
R30908WO

SWISSP DEFENCE AG,
Uttigenstrasse 67, 3602 Thun

~~Bullet cartridge, method for manufacturing a bullet cartridge and plant for manufacturing bullet cartridges~~

CARTRIDGE, METHOD FOR PRODUCING A CARTRIDGE, AND SYSTEM FOR PRODUCING CARTRIDGES

The invention relates to a method for manufacturing a bullet cartridge, a plant for manufacturing bullet cartridges and a bullet cartridge.

In particular in the case of small and medium calibers, seals are required which are leak-proof over a long period of more than 10 years despite negative or positive pressure and in an intended temperature band. The sealing between the projectile and the case should be as cost-effective as possible. The seal between the projectile and the case should also ensure high pull-out resistance and be as easy as possible to manufacture in series.

Sealants with a highly viscous sealing medium are generally known from the prior art. Usually, a viscous sealing medium with a corresponding thinner is applied to the inside of the case. Joining the projectile into the case forces part of the applied sealing medium into the case. The remaining sealant then creates the seal. When the projectile is fired, the sealing medium is burned off. The connection between the projectile and the case by means of the high-viscosity sealing medium is a force-fit and a material-fit. However, a highly viscous sealing medium is very problematic to handle because of its viscosity.

WO 2017/198328 A1 relates to a bullet cartridge with a projectile and a case and with a seal between the projectile and the case, the seal being formed by two rings of a bituminous mixture. Bituminous sealants show advantageous mechanical and thermal properties in terms of long storage as well as in terms of pull-out resistance and are