

Title (en)

FIREARM INSERT FOR FIRING SMALLER CALIBER AMMUNITION AND PROCESS FOR PRODUCING A INSERTABLE BARREL.

Title (de)

EINSATZ FÜR SCHUSSWAFFEN ZUM VERSCHIESSEN KLEINERKALIBRIGER MUNITION SOWIE VERFAHREN ZUR HERSTELLUNG DES ZUGEHÖRIGEN EINSATZLAUFES.

Title (fr)

ENSEMBLE COMPLEMENTAIRE POUR ARMES A FEU PERMETTANT DE TIRER DES MUNITIONS DE PLUS PETIT CALIBRE, ET PROCEDE DE FABRICATION DU CANON INSERABLE CORRESPONDANT.

Publication

EP 0530197 A4 19930122 (DE)

Application

EP 91905113 A 19910319

Priority

- CA 2083284 A 19910319
- CH 9100065 W 19910319
- AU 7442891 A 19910319

Abstract (en)

[origin: WO9216815A1] A firearm insert has an insertable barrel (27) and a loading shell (21). The mass ratio between the inner and outer diameters of the insertable barrel (27) exceeds 60 % when the inner diameter has less than 5 mm and the outer side of the insertable barrel (27) is totally smooth, so that it closely fits into the barrel of the firearm. The corresponding loading shell (21) is made of two separable parts (1, 10). In the front female part (1) the small caliber ammunition (7) to be fired can be introduced. The rear male part (10) contains in its inner bore an axially movable firing pin (11). The rear part (10) of the loading shell is plugged into the front part (1) and secured by means of a bayonet catch. The assembled loading shell (21) together with the charge (7) has the same outer dimensions as a usual cartridge for the concerned firearm and can be handled as such. In particular, several loading shells (21) may be stored in the magazine of the firearm, so that rebading requires only a manual loading movement. The grooves (28) and lands (29) in the disclosed insertable barrels (27) are produced by cold forming by hammers arranged around the periphery of a stationary core that extends over the whole length of the barrel (27). The hammers form a standard tube whereas the barrel (27) worked by the hammers is twisted and drawn off the core.

IPC 1-7

B21C 37/20; **F41A 21/10**; **F41A 21/18**; **F42B 8/10**

IPC 8 full level

B21C 37/15 (2006.01); **B21C 37/20** (2006.01); **F41A 21/10** (2006.01); **F41A 21/18** (2006.01); **F42B 8/10** (2006.01)

CPC (source: EP)

B21C 37/153 (2013.01); **F41A 21/10** (2013.01); **F41A 21/18** (2013.01); **F42B 8/10** (2013.01)

Citation (search report)

See references of WO 9216815A1

Designated contracting state (EPC)

AT DE FR IT SE

DOCDB simple family (publication)

WO 9216815 A1 19921001; AU 7442891 A 19921021; CA 2083284 A1 19920920; EP 0530197 A1 19930310; EP 0530197 A4 19930122

DOCDB simple family (application)

CH 9100065 W 19910319; AU 7442891 A 19910319; CA 2083284 A 19910319; EP 91905113 A 19910319