

Title (en)
Method for manufacturing cylinders for cartridge shells and composition

Title (de)
Verfahren zur Herstellung von Zylindern für Patronenhülsen und Zusammensetzung

Title (fr)
Procédé de fabrication de cylindres pour douille de cartouche et composition

Publication
EP 2078921 A3 20090826 (FR)

Application
EP 09150097 A 20090106

Priority
FR 0800113 A 20080109

Abstract (en)
[origin: EP2078921A2] The method involves supplying a composition (2) i.e. binder, of vegetal origin to cavities (3) of cylindrical molds (4) adapted to cylinders (1), where the composition comprises cellulose fibers, filler wood, microcrystalline cellulose. The composition is compressed in the cavities between lower peripheral and central punches (5, 6) and an upper punch (7), where the peripheral punch slides axially in the molds and the central punch slides axially in the punch (5). The obtained cylinders are ejected, where the distance between the punches (5, 7) defines the height of the cylinders.

IPC 8 full level
F42B 5/18 (2006.01); **F42B 5/26** (2006.01); **F42B 33/00** (2006.01)

CPC (source: EP US)
F42B 5/18 (2013.01 - EP US); **F42B 5/26** (2013.01 - EP US); **F42B 33/00** (2013.01 - EP US)

Citation (search report)

- [Y] BE 905499 A 19870116 - DYNAMIT NOBEL AG
- [Y] FR 1499078 A 19671020 - RHEINMETALL GMBH
- [A] US 6527535 B1 20030304 - HAN PHILIP S [US]
- [A] GB 677234 A 19520813 - HALLER JOHN
- [A] GB 1242260 A 19710811 - BIRMINGHAM SMALL ARMS CO LTD
- [A] DE 3623025 C1 19920702 - MESSERSCHMITT BOELKOW BLOHM
- [A] EP 0475207 A1 19920318 - OLIN CORP [US]

Cited by
EP3901561A1

Designated contracting state (EPC)
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 SE SI SK TR

Designated extension state (EPC)
AL BA RS

DOCDB simple family (publication)
EP 2078921 A2 20090715; EP 2078921 A3 20090826; EP 2078921 B1 20110323; AT E503167 T1 20110415; BR PI0900033 A2 20101019; BR PI0900033 B1 20190402; CY 1111490 T1 20150805; DE 602009000919 D1 20110505; ES 2361900 T3 20110624; FR 2926133 A1 20090710; FR 2926133 B1 20100122; MX 2009000100 A 20090828; PT 2078921 E 20110609; RU 2008151291 A 20100627; RU 2482432 C2 20130520; US 2010007055 A1 20100114

DOCDB simple family (application)
EP 09150097 A 20090106; AT 09150097 T 20090106; BR PI0900033 A 20090109; CY 111100508 T 20110525; DE 602009000919 T 20090106; ES 09150097 T 20090106; FR 0800113 A 20080109; MX 2009000100 A 20090107; PT 09150097 T 20090106; RU 2008151291 A 20081225; US 35098009 A 20090109