

Title (en)
A DISPENSING APPARATUS

Title (de)
ABGABEVORRICHTUNG

Title (fr)
DISTRIBUTEUR

Publication
EP 1667801 A1 20060614 (EN)

Application
EP 04768337 A 20040906

Priority
• GB 2004003790 W 20040906
• GB 0322758 A 20030929

Abstract (en)
[origin: GB2406330A] A hand-held multi-dose dispensing apparatus (10) comprising a metering chamber (20) having an axis (21), an end portion (22) at one axial end of the chamber (20) and a side body portion (23) extending from the axial end portion (22), a piston arrangement (30) movable with a piston stroke along the axis of the metering chamber (20) with a seal portion (34) of the piston arrangement (30) being slidably engageable with an inside surface of a side portion (23) of the metering chamber, an inlet (27) for fluid to enter the metering chamber (20), and an outlet (31,32) for fluid to be dispensed from the metering chamber (20), wherein the inlet (27) is provided on the side body portion (23) of the metering chamber and, in use, during a first portion of the piston stroke, the inlet(27) is in fluid communication with the metering chamber (20) and during a second portion of the piston stroke, the seal portion (34) of the piston arrangement (30) blocks the inlet (27) preventing fluid from passing from the inlet (27) into the metering chamber (20). This dispensing apparatus (10) reduces variations in the shot weight dispensed, by the metering of the fluid commencing at the point at which the piston enters the second portion of its stroke blocking off the inlet.

IPC 1-7
B05B 11/00

IPC 8 full level
B05B 11/00 (2006.01)

CPC (source: EP US)
B05B 11/1025 (2023.01 - EP US); **B05B 11/104** (2023.01 - EP US); **B05B 11/107** (2023.01 - EP US)

Citation (search report)
See references of WO 2005030401A1

Cited by
DE102012203866A1; DE102012203866B4

Designated contracting state (EPC)
DE FR GB IT

DOCDB simple family (publication)
GB 0322758 D0 20031029; GB 2406330 A 20050330; GB 2406330 B 20051207; BR PI0414820 A 20061114; CN 1859983 A 20061108; DE 602004022685 D1 20091001; EP 1667801 A1 20060614; EP 1667801 B1 20090819; US 2009173752 A1 20090709; WO 2005030401 A1 20050407

DOCDB simple family (application)
GB 0322758 A 20030929; BR PI0414820 A 20040906; CN 200480028056 A 20040906; DE 602004022685 T 20040906; EP 04768337 A 20040906; GB 2004003790 W 20040906; US 59521404 A 20040906