

Title (en)

Variable volume valve for a combustion powered tool

Title (de)

Ventil mit verstellbarem Volumen für verbrennungskraftbetriebenes Werkzeug

Title (fr)

Soupape à volume variable pour outil entraîné par gaz de combustion

Publication

**EP 1254745 A2 20021106 (EN)**

Application

**EP 02291089 A 20020430**

Priority

- US 84970601 A 20010504
- US 97310301 A 20011009

Abstract (en)

A variable volume metering chamber (24) and valve assembly for a combustion-powered tool includes a housing (12) defining a metering chamber (24) having an internal volume and including an inlet (20) and an outlet (22), and a plunger (122) configured for reciprocal movement relative to the chamber for adjusting the internal volume of the metering chamber. The plunger (122) is preferably adjustable by the user to alter the volume of fuel retained in the metering chamber. In the housing, a first valve (16) controls control fluid flow through the inlet, a second valve (18) controls fluid flow through the outlet, and an actuator assembly (60), connected to the valves, is sequentially operable from a first position, in which the first valve (16) is open and the second valve (18) is closed, to a second position, in which the first and second valves are both closed, and a third position, in which the first valve is closed and the second valve is open.

IPC 1-7

**B25C 1/08**

IPC 8 full level

**B25C 1/04** (2006.01); **B25C 1/08** (2006.01); **F02M 69/52** (2006.01); **F16K 21/00** (2006.01)

CPC (source: EP KR)

**B25C 1/04** (2013.01 - KR); **B25C 1/08** (2013.01 - EP)

Cited by

FR2848894A1; FR2855993A1; FR2848895A1; EP2412481A3; US7124923B2; USD910718S; EP3067158A1; EP3189939A1; AU2018207329B2; WO2006054218A1; WO2017091442A1; US11065750B2; US11978915B2; US10598377B2; US11287129B2; USD1001736S; US11992925B2; USD873301S; USD875139S; USD903716S; US10166666B2; US10654156B2; US11273544B2; TWI458599B

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