

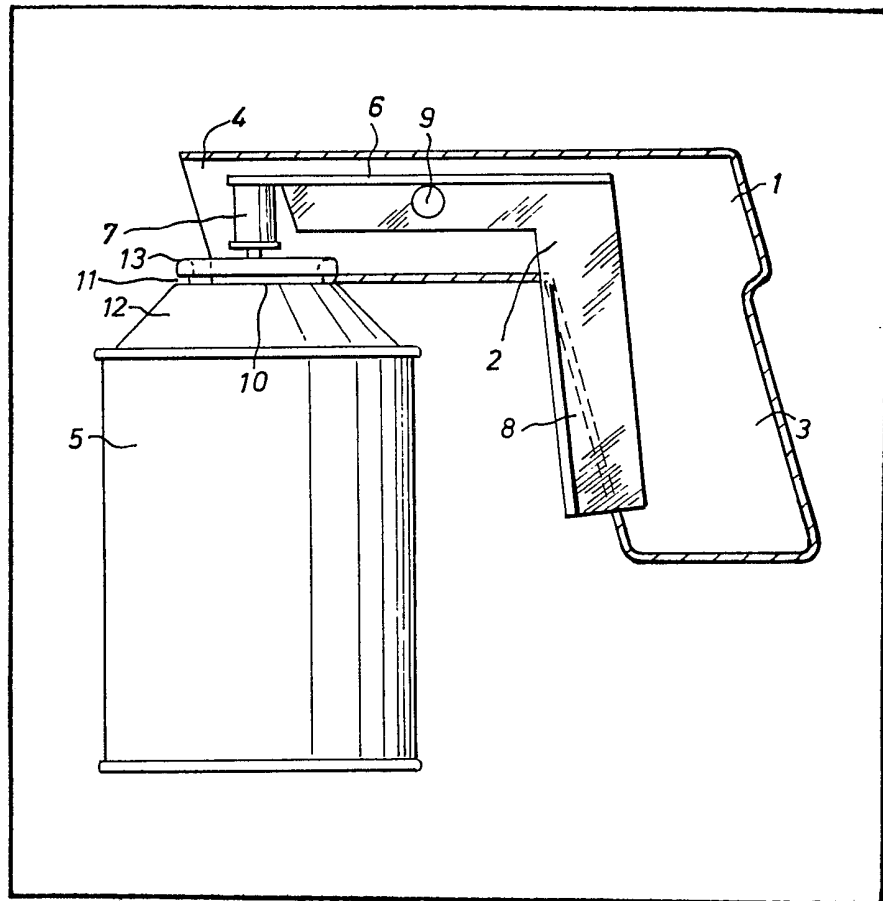
(12) UK Patent Application (19) GB (11) 2 038 952 A

- (21) Application No 7849793
- (22) Date of filing 22 Dec 1978
- (43) Application published 30 Jul 1980
- (51) INT CL<sup>3</sup> B65D 83/14
- (52) Domestic classification F1R 3A3D12C
- (56) Documents cited GB 1487719 GB 1163978 GB 829508
- (58) Field of search F1R
- (71) Applicant Four Square Industries Limited, 1605, Hang Lung Centre, Paterson Street, Causeway Bay, Hong Kong
- (72) Inventor Philip Roy Morgan
- (74) Agent Marks & Clerk

(54) An Actuating Device for a Spray Can

(57) An aerosol spray can is actuated by a pivoted trigger lever 2 mounted in a support member 1. The support member 1 engages on the spray can

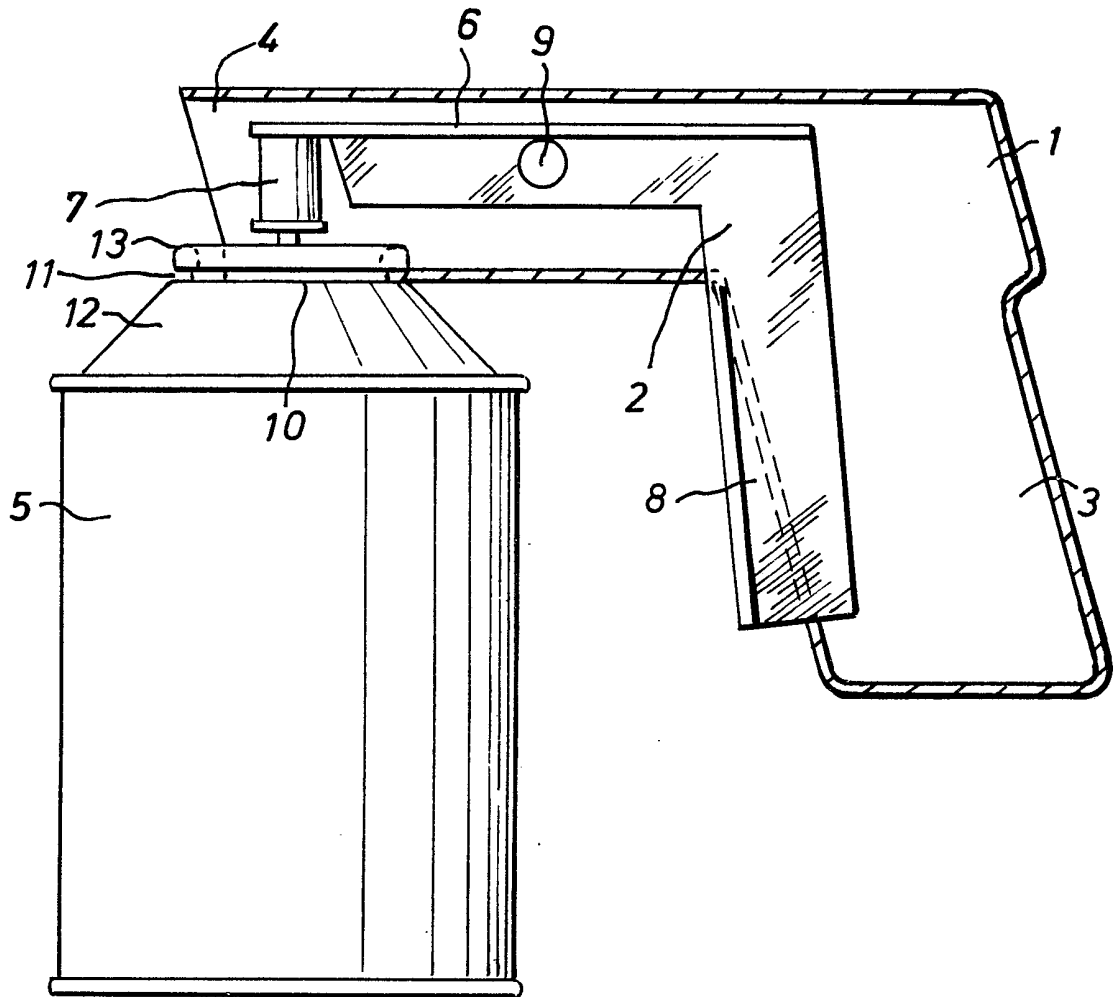
5, and the trigger lever has a part 8 which can be moved to cause the lever to pivot and depress the can nozzle. The support member 1 is attached to the can 5 in such a way that the can can be lifted by the support member.



GB2 038 952 A

2038952

1-1



## SPECIFICATION

**An Actuating Device for a Spray Can**

This invention relates to an actuating device for a spray can.

5 Spray cans are generally operated by depressing a button on the top of the can with the finger of a hand which is holding the can. In some applications, for example spray painting, spraying has to be continued for a considerable period and this can be tiring on the finger. Additionally, there is a danger of the finger becoming contaminated with the material being sprayed.

10 According to the invention, there is provided an actuating device for a spray can, which comprises a support member for attachment to a spray can in the region of the nozzle thereof, the support member having a grip portion, and a trigger lever pivoted to the support member and having one part adapted to cooperate with the spray can nozzle and another part adjacent the support member grip portion so that on drawing said other part of the lever towards the grip portion, the lever pivots and depresses the nozzle of the spray can.

25 Most aerosol spray cans have a standard configuration of upper can, seal, valve and spray nozzle. The support member can therefore have a standard clip portion which will fit onto any standard can. Preferably this clip portion is part-circular and is adapted to engage in the groove between the upper can and the seal of a spray can.

30 The grip portion is preferably positioned at an angle to the rest of the support member in the manner of a pistol grip. Said one and other parts of the trigger lever are then also correspondingly angled.

35 The position of the trigger lever pivot can be chosen to give any desired mechanical advantage.

40 The invention will now be further described, by way of example, with reference to the accompanying drawing which is a schematic side view of an actuating device according to the invention in place on a spray can.

45 The actuating device comprises a support member 1 and a trigger lever 2. The support member has a grip portion 3 and has its free end 4 received on a spray can 5. The trigger lever 2 has a part 6 which cooperates with a nozzle 7 of the spray can 5, and a part 8 which is arranged adjacent the grip portion 3. The trigger lever 2 is mounted in the support member 1 on a pivot 9 so that when the trigger lever part 8 is squeezed

55 towards the grip portion 3, the part 6 is rotated about the pivot 9 and depresses the nozzle 7 so that the contents of the can 5 are sprayed out.

60 The clip portion 10 of the support member has a part-circular flange which flips into and engages with a groove 11 between the upper can 12 and the seal 13 of the spray can. The engagement is such that the spray can is supported by the support member and so the whole assembly can be lifted by an operator holding the grip portion. The clip portion 10 should be a snap-fit in the groove 11.

65 The position of the pivot 9 can be altered to alter the mechanical advantage which is required to produce the necessary pressure to depress the spray can nozzle 7.

70 The device described provides a comfortable handle and an easy method of operating spray cans. Because of the mechanical advantage available to the user, it is possible to have greater control over the depression of the nozzle and therefore over the opening of the can valve. When required, it is possible to vary the volume of spray emitted by careful control of the trigger lever. The user's hand is kept away from the spray itself.

**Claims**

80 1. An actuating device for a spray can, which device comprises a support member for attachment to a spray can in the region of the nozzle thereof, the support member having a grip portion, and a trigger lever pivoted to the support member and having one part adapted to cooperate with the spray can nozzle and another part adjacent the support member grip portion so that on drawing said other part of the lever towards the grip portion the lever pivots and depresses the nozzle of the spray can.

85 2. A device as claimed in claim 1, wherein the support member has a clip portion adapted to be a snap-fit on a standard spray can.

90 3. A device as claimed in claim 2 wherein the clip portion includes a part-circular flange adapted to engage in the groove between the upper can and the seal of the spray can.

95 4. A device as claimed in any preceding claim, wherein the grip portion is positioned at an angle to the rest of the support member in the manner of a pistol grip, and the two parts of the trigger lever are correspondingly angled.

100 5. An actuating device for a spray can, substantially as herein described with reference to and as shown in the accompanying drawing.