

CLAIMS:

1. An actuator housing for a metered dose inhaler device, the actuator housing comprising:
a substantially hollow tubular first portion having a first proximal end and a first distal
5 end;
a base portion formed at the first proximal end, the base portion having a base plane;
an actuator seat formed in the base portion;
an actuator nozzle formed in the actuator seat and operable for dispensing a spray of
metered fluid; and
10 a substantially hollow second portion having a second proximal end and a second distal
end and defining a mouthpiece, the second proximal end being located adjacent the first
proximal end and the second distal end defining an end of the mouthpiece, the substantially
hollow second portion defining a roof section and a floor section which extend from the second
proximal end to the second distal end of the mouthpiece, the roof section having an outer
15 profile angled upwardly relative to the base plane and the floor section being in juxtaposition
with the base portion and having an outer profile substantially parallel with the base plane.
2. An actuator housing according to claim 1, wherein the outer profile of the roof section
defines an upward angle between 10 degrees and 40 degrees relative to the base plane.
20
3. An actuator housing according to any one of claims 1 to 2, wherein the actuator nozzle is
upwardly angled with respect to the base plane to produce an upwardly angled spray with
respect to the base plane.
- 25 4. An actuator housing according to claim 3, wherein the actuator seat is angled with respect to
the base plane to produce the upwardly angled actuator nozzle.
5. An actuator housing according to any one of claims 1 to 4, further comprising a cross-piece
formed at a first end of the outer profile of the roof section which is adjacent the second
30 proximal end of the mouthpiece.
6. An actuator housing for a metered dose inhaler device, the actuator housing comprising:
a substantially hollow tubular first portion having a first proximal end and a first distal
end and a first portion axis extending from the first distal end to the first proximal end;
35 a base portion formed at the first proximal end;

- an actuator seat formed in the base portion;
an actuator nozzle formed in the actuator seat and operable for dispensing a spray of metered fluid; and
a substantially hollow tubular second portion having a second proximal end and a second distal end defining a mouthpiece, the second proximal end being located adjacent the first proximal end and the second distal end defining an end face of the mouthpiece, the substantially hollow tubular second portion having a second portion axis extending from a centre of the actuator nozzle to a centre of the end face of the mouthpiece;
wherein the actuator nozzle defines a spray axis which is angled upwardly in the distal direction relative to a plane perpendicular to the first portion axis.
7. An actuator housing according to claim 6, wherein the second portion axis is angled upwardly relative to a plane perpendicular to the first portion axis.
8. An actuator housing according to claim 7, wherein the spray axis is aligned with the second portion axis.
9. An actuator housing according to claim 6 or 7, wherein the spray axis is upwardly angled in the distal direction relative to the second portion axis.
10. An actuator housing according to any one of claims 6 to 9, wherein the spray axis is angled upwardly between 10 degrees and 50 degrees relative to the plane perpendicular to the first portion axis.
11. An actuator housing for a metered dose inhaler device, the actuator housing comprising:
a generally tubular substantially hollow first portion having a first distal end and a first proximal end and a first portion axis extending from the first distal end to the first proximal end;
a base portion formed at the first proximal end;
an actuator seat formed in the base portion;
an actuator nozzle formed in the actuator seat and operable for dispensing a spray of metered fluid; and
a generally tubular substantially hollow second portion having a second proximal end and a second distal end defining a mouthpiece, the second proximal end being located adjacent the first proximal end and the second distal end defining an end of the mouthpiece, the

generally tubular substantially hollow second portion having a second portion axis extending from a centre of the actuator nozzle to a centre of the end of the mouthpiece, the end of the mouthpiece having an open face defining a mouthpiece face plane which is angled relative to a plane perpendicular to the second portion axis, the substantially hollow second portion defining a floor portion being in juxtaposition with the base portion and a roof portion and, wherein the mouthpiece face plane is angled such that the roof portion extends distally, in the second portion axial direction, further than the floor portion.

12. An actuator housing according to claim 11, wherein the mouthpiece face plane is at an angle between 10 degrees and 50 degrees relative to a plane perpendicular to the second portion axis.

13. An actuator housing according to claim 11, wherein the actuator nozzle defines a spray axis which is angled upwardly in the distal direction relative to the second portion axis.

14. An actuator housing according to claim 11, further comprising a plurality of flutes formed on an external surface of the mouthpiece and located adjacent to the mouthpiece face plane.

15. An actuator housing according to claim 11, further comprising a plurality of apertures formed in the mouthpiece adjacent the mouthpiece face plane.

16. An actuator housing according to claim 11, further comprising a plurality of depressions formed on the mouthpiece adjacent the mouthpiece face plane.

17. An actuator housing according to claim 11, further comprising a plurality of rib elements formed on an external surface of the mouthpiece adjacent the mouthpiece end plane.

18. An actuator housing according to claim 11, wherein the mouthpiece includes at least one annular projection formed on an external surface thereof, each annular projection being spaced from the mouthpiece face plane.

19. An actuator housing according to claim 11, wherein the actuator nozzle is upwardly angled with respect to the base portion to produce an upwardly angled spray with respect thereto.

20. A metered dose inhaler device comprising a canister having a metering valve, and an actuator housing according to any one of claims 1 to 19, the metering valve being operable for engaging with the actuator seat formed in the base portion of the actuator housing.