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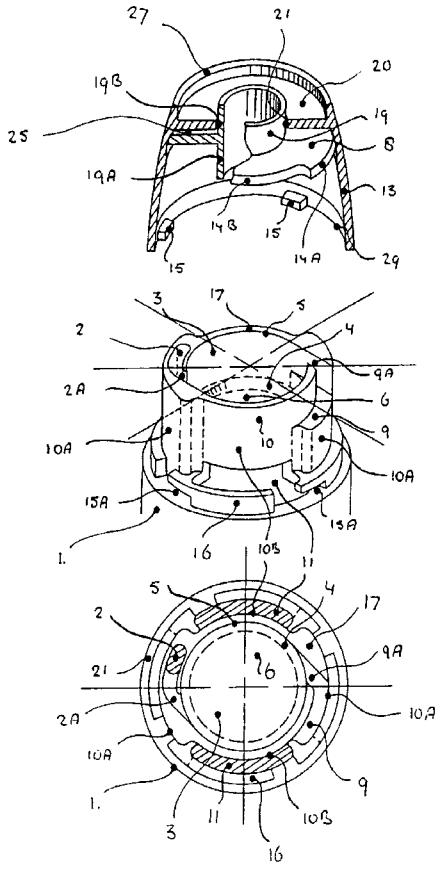
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(54) Title: POWDER FORMULATION DISINTEGRATING SYSTEM AND METHOD FOR DRY POWDER



(57) Abstract: For improving efficiency of the application of medical powder formulations a disintegration means for dry powder inhalers is proposed, comprising a substantially cylindrical air circulation chamber (3) with a height being smaller than its diameter, and at least two air supply channels (2, 9) which enter the chamber (3) as tangents to its cylindrical wall (5) at generally opposite sides of this wall (5), suitable for creating a circular air flow pattern inside the chamber (3), both air channels (2, 9) either having different inlets or alternatively sharing the same inlet which is split up, so as to have one passageway (2) for traversing the dose measuring or dose supplying region of the inhaler for enabling the powder quantity of a single dose dragged into the circulation chamber (3) by air flowing through this passageway (2), and the other passageway to serve as a bypass channel (9) towards the circulation chamber (3) suitable for accelerating the particles and creating a more symmetrical flow pattern inside said chamber (3), and a method.

WO 03/000325 A1