

Title (en)

METHOD AND APPARATUS FOR MANUFACTURING A LIQUID-FILLED CAPSULE

Title (de)

VERFAHREN UND VORRICHTUNG ZUR HERSTELLUNG EINER FLÜSSIGKEITSGEFÜLLTEN KAPSEL

Title (fr)

PROCÉDÉ ET APPAREIL DE FABRICATION D'UNE CAPSULE REMPLIE DE LIQUIDE

Publication

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Application

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Abstract (en)

[origin: WO2018019868A1] The present invention provides a method of manufacturing liquid-filled capsules for use in smoking articles. The method comprises the steps of: providing a capsule shell (101) defining a cavity (106) and having an open end (105); dispensing a volume of liquid (L) into the cavity (106) through the open end (105) of the shell (101), whereby a clearance ( $\delta$ ) is left between an upper surface of the liquid (L) dispensed into the cavity (106) and the open end (105) of the shell (101); and sealing the open end (105) of the shell (101) with a portion of sheet material to provide a liquid-filled capsule (100) containing the volume of liquid (L). The present invention also provides an apparatus for manufacturing liquid-filled capsules for use in smoking articles. The apparatus comprises: a holder for holding one or more capsule shells (101); a conveyor for moving or transporting the holder with the one or more capsule shells (101); a filling station (3) for dispensing a liquid into a cavity (106) of each of the capsule shells (101) held by the holder, wherein the filling station (3) is configured to provide a pre-defined clearance ( $\delta$ ) between the liquid dispensed into the cavity (106) and the open end (105) of each shell (101); and a sealing station (4) for covering and sealing an open end (105) of each capsule shell (101) with a sheet material to form a capsule (100). The invention further provides a liquid-filled capsule (100) for use in smoking articles, wherein the capsule comprises: a capsule shell (101) defining a cavity (106) and having an end (105) providing a filling opening; a volume of liquid (L) contained within the cavity (106); and a cap (102) which covers and seals the end (105). A pre-defined clearance ( $\delta$ ) is provided between an upper surface of the liquid (L) contained in the cavity (106) and the end (105) of the shell (101).

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