

Title (en)

METHOD FOR PRODUCING A SINGLE-SERVE CAPSULE, AND SINGLE-SERVE CAPSULE

Title (de)

VERFAHREN ZUR HERSTELLUNG EINER PORTIONENKAPSEL, UND PORTIONENKAPSEL

Title (fr)

PROCÉDÉ DE PRODUCTION D'UNE CAPSULE À USAGE UNIQUE, ET CAPSULE À USAGE UNIQUE

Publication

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Application

**EP 21724630 A 20210506**

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Abstract (en)

[origin: WO2021224421A1] The invention relates to a method for producing a capsule, comprising the following steps: providing a main body (2) consisting of a plastic and having a bottom region (5), a circumferential side wall (6) and a circumferential main body collar (41) adjoining the circumferential side wall; providing a lid (3) consisting of a plastic; filling the main body (2) with an extract material; placing the lid (3) onto the main body (2) such that a fastening part of the lid rests on the main body collar (41); and fastening the lid collar to the main body collar by ultrasonic welding. When the lid collar is fastened, an inner surface (33) of the fastening part lies flat on a collar surface (43) of the main body collar. A sonotrode (50) to which mechanical vibrations are applied and which has an energy director (52) is pressed against an outer surface (34) of the fastening part or the main body collar such that plastic material of the lid and of the main body collar begins to liquefy at the outer surface as a result of the effect of the mechanical vibrations.

IPC 8 full level

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