

Title (en)

METHOD AND APPARATUS FOR THE DEHYDRATION AND/OR STERILIZATION OF ORGANIC MATERIALS

Title (de)

VERFAHREN UND GERÄT ZUR DEHYDRATION UND/ODER STERILISATION VON ORGANISCHEN STOFFEN

Title (fr)

PROCÉDÉ ET APPAREIL POUR LA DÉSHYDRATATION ET/OU LA STÉRILISATION DE MATÉRIAUX ORGANIQUES

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Application

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Abstract (en)

[origin: CA2557628A1] An apparatus and method for sterilizing and/or dehydrating organic materials. The apparatus comprises a microwave chamber, at least one microwave generator for irradiating material within the drum, and a vacuum system coupled to the microwave chamber to evacuate the microwave chamber to a desired pressure below atmospheric pressure. In one embodiment the microwave chamber contains a microwave- permeable rotatable drum having an access opening and a helical vane disposed along an inner wall of the drum, the vane being oriented so that when the drum is rotating in a loading direction the material is tossed and driven away from the access opening, and upon a reversal of the rotation of the drum to an unloading direction, the material is driven toward the access opening to be discharged from the drum.

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