

Title (en)  
MICROWAVE PRESSURE VESSEL AND METHOD OF STERILIZATION

Title (de)  
DRUCKGEFÄSS FOR MIKROWELLEN UND VERFAHREN ZUM STERILISIEREN

Title (fr)  
RECIPIENT SOUS PRESSION A MICRO-ONDES ET SON PROCEDE DE STERILISATION

Publication  
**EP 0827678 A4 19990303 (EN)**

Application  
**EP 96915894 A 19960521**

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Abstract (en)  
[origin: WO9638021A1] A method and apparatus for microwave sterilizing, disinfecting or otherwise heating materials, objects, liquids and the like under pressure is disclosed. The invention utilizes the generation and transmission of single-mode, noninterfering coaxial microwaves from multiple sources (30) into the material to be treated placed inside a container (26) which is within a treatment chamber (20) of a microwave pressure vessel (12). As a result, a more efficient transfer of microwave energy into the material to be treated is obtained.

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Citation (search report)  
• [A] WO 9407545 A1 19940414 - BELINOX AG [CH], et al  
• [A] US 5124125 A 19920623 - BRENT DAVID A [US]  
• [A] DE 3341585 A1 19850530 - FRITZ KARL DR [DE]  
• See references of WO 9638021A1

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**WO 9638021 A1 19961128**; AU 5754596 A 19961211; AU 717716 B2 20000330; BR 9609045 A 20000328; CA 2221680 A1 19961128; CN 1185891 A 19980624; EP 0827678 A1 19980311; EP 0827678 A4 19990303; JP H11505956 A 19990525; KR 19990021895 A 19990325; MX 9708982 A 19981031

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