

Title (en)  
MICROWAVE TREATMENT DEVICE

Title (de)  
MIKROWELLENBEHANDLUNGSVORRICHTUNG

Title (fr)  
DISPOSITIF DE TRAITEMENT PAR MICRO-ONDES

Publication  
**EP 3618570 A1 20200304 (EN)**

Application  
**EP 18791220 A 20180418**

Priority  
• JP 2017089338 A 20170428  
• JP 2018015930 W 20180418

Abstract (en)  
A microwave treatment device includes a heating chamber, a first and second antennas, a transmission line group, and a plurality of supply parts. The heating chamber accommodates an object to be heated. The first and second antennas radiate microwaves to the heating chamber. The transmission line group includes a plurality of transmission lines for supplying the first and second antennas with microwaves. The plurality of supply parts supplies the transmission line group with a microwave. The plurality of transmission lines includes first to fourth transmission lines coupled in a ring shape. The transmission line group further includes a first branch part between the first and third transmission lines, and a second branch part between the second and fourth transmission lines. The plurality of supply parts includes a first supply part between the first and second transmission line, and a second supply part between the third and fourth transmission lines. The first transmission line has the same phase length as that of each of the second and fourth transmission lines, and the third transmission line has a phase length different from that of each of the first, second, and third transmission lines. This aspect can carry out desired heating to objects to be heated having various shapes, types, and amounts for a short time.

IPC 8 full level  
**H05B 6/70** (2006.01); **F24C 7/02** (2006.01); **H05B 6/66** (2006.01); **H05B 6/72** (2006.01); **H05B 6/74** (2006.01)

CPC (source: EP)  
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