



US 20220386430A1

(19) **United States**(12) **Patent Application Publication**
GUO et al.(10) **Pub. No.: US 2022/0386430 A1**(43) **Pub. Date: Dec. 1, 2022**(54) **HEAT TREATMENT DEVICE****Publication Classification**(71) Applicants: **HUAN-JUN GUO**, Kaohsiung City
(TW); **PO-YEN CHIU**, New Taipei
City (TW)(51) **Int. Cl.**
H05B 6/78 (2006.01)**A23N 12/08** (2006.01)(72) Inventors: **HUAN-JUN GUO**, Kaohsiung City
(TW); **PO-YEN CHIU**, New Taipei
City (TW)(52) **U.S. Cl.**
CPC **H05B 6/782** (2013.01); **A23N 12/08**
(2013.01)(21) Appl. No.: **17/727,854**(22) Filed: **Apr. 25, 2022**(30) **Foreign Application Priority Data**

May 26, 2021 (TW) 110118996

(57) **ABSTRACT**

A heat treatment device suitable for performing heat treatment on a material is provided. The heat treatment device includes a cavity, a microwave generator, and a stirring element. The material is arranged in the cavity. The microwave generator is arranged beside the cavity and is suitable for providing a microwave into the cavity. The stirring element is arranged beside the cavity and is suitable for stirring the material.

10