

Title (en)  
HIGH-FREQUENCY HEATING DEVICE

Title (de)  
HOCHFREQUENZERWÄRMUNGSVORRICHTUNG

Title (fr)  
DISPOSITIF DE CHAUFFAGE HAUTE FRÉQUENCE

Publication  
**EP 3780909 A1 20210217 (EN)**

Application  
**EP 19781210 A 20190329**

Priority  
• JP 2018073616 A 20180406  
• JP 2018073617 A 20180406  
• JP 2019014067 W 20190329

Abstract (en)  
A high-frequency heating device includes: a high-frequency power generator configured to generate microwaves; a surface wave line containing a conductive material; a power feeder connected to the high-frequency power generator; and a loop antenna disposed at a front end of the power feeder and facing an end of the surface wave line. In this aspect, a high input impedance can be maintained, and a decrease of radiation resistance can be prevented or reduced. As a result, the size of the power feeder can be reduced, and surface wave heating can be efficiently performed.

IPC 8 full level  
**H05B 6/72** (2006.01); **H05B 6/74** (2006.01)

CPC (source: EP)  
**H05B 6/72** (2013.01); **H05B 6/74** (2013.01)

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 3780909 A1 20210217**; **EP 3780909 A4 20210505**; **EP 3780909 B1 20220504**; CN 111066375 A 20200424; CN 111066375 B 20220304; WO 2019194098 A1 20191010

DOCDB simple family (application)  
**EP 19781210 A 20190329**; CN 201980003756 A 20190329; JP 2019014067 W 20190329