



STAATSMINISTERIUM
FÜR WISSENSCHAFT
KULTUR UND TOURISMUS



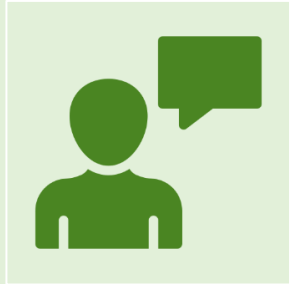
Freistaat
SACHSEN

Saksa Kevad 2023

Estonia and Saxony –
on the way forward to Clean Energy



1. About us

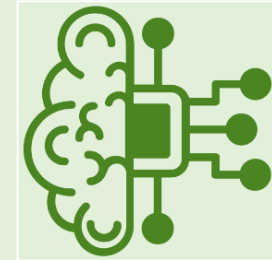


Dr.-Ing. Dipl.-Wi.-Ing.
Anja Rautenstrauch



Forming department
Professorship for Forming
and Joining

**Chemnitz University of
Technology**



Induction heating
technology

2. What we are looking for

Innovative method for generating hot gas for CO₂-neutral heating of industrial production processes

Objective:

Substitution of current heating processes based on fossil fuel gases by the generation of ultra-hot air through the inductively heated susceptor materials

Development focus:

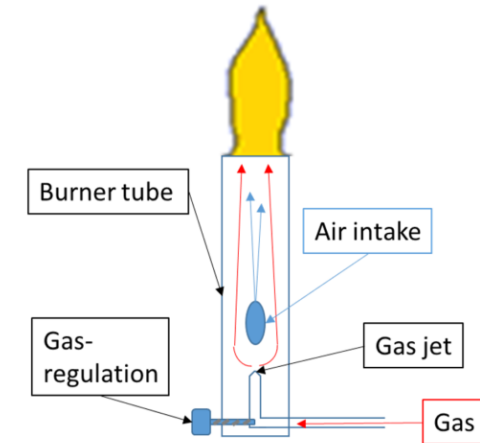
- *Susceptor selection (Novel and innovative combinations of materials)*
- *Porosity of the susceptor material*
- *Selection of the gaseous medium (air, nitrogen...)*

- patent pending -

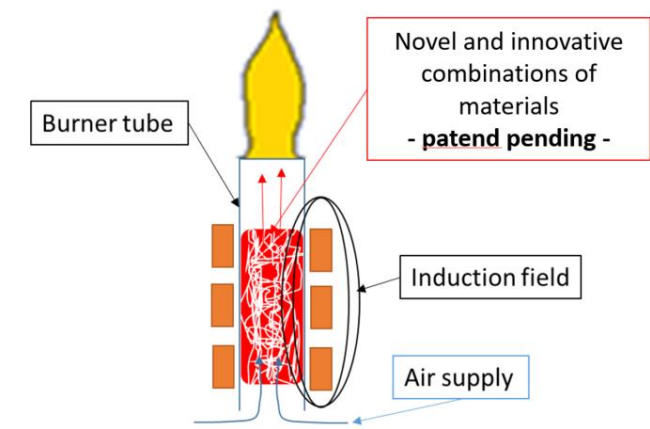
Application:

Industrial heating processes in the field: preheating of different components, soldering,

Conventional burner technology based on fossil fuels



Innovative burner technology based on renewable energy



3. How to contact us



<http://www.tu-chemnitz.de/mb/UFF>



anja.rautenstrauch@mb.tu-chemnitz.de



+49 (0)371 531-37327