

SEPNA

Space Electronics used to Produce
Nano technology on earth

ESA Spark Funding Germany

Space Technology

Electric space propulsion system.

In the 1960s, the radio-frequency ion thruster was invented in Giessen (Germany). As part of this electric space propulsion system a new concept for a radio-frequency (RF) generator has been developed.

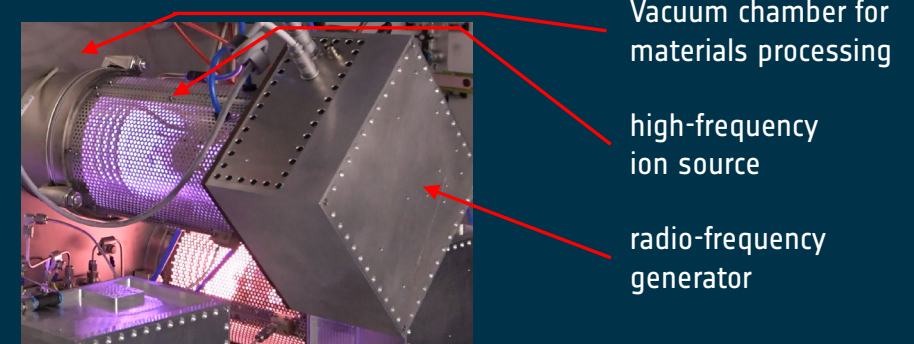
Non-Space Application

Sources for materials processing to produce nanotechnologies.

Such RF generators are used to power high-frequency ion sources for materials processing to produce nanotechnologies; e.g., to coat eyeglass lenses, manufacture mirrors for lasers, to polish silicon wafers or to alter material properties by atom implantation.

Benefits

The new generators are smaller, more energy efficient, have faster control times and can be used in vacuum.



Contractor:

SRD Electronics UG

Space Technology Provider/Project Partner:

Technische Hochschule Mittelhessen

University of Applied Sciences Mittelhessen



Year of Contract: **2022**

→ THE EUROPEAN SPACE AGENCY