

# Angled junction between a microstrip line and a rectangular waveguide

**What:** *Asset acquisition, assignment of patent*

**For whom:** *Strong development & marketing partner in this field*

## Technology

- New space and energy saving transition element to transfer an electromagnetic wave in a strip transmission line into a waveguide.
- Benefits for assignee
  - Full control over patent in Ep, US and JP
  - Technology and market securing
  - New cost-effective Transition element from transmission line in waveguide for high frequency signals.

### Innovation

- With a new form of geometric of the connector between line transmission element and waveguide element it is possible to connect nearly without loss high frequent electromagnetic signals from strip transmission elements in waveguide elements.
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### Application

- Application everywhere when high frequent signals are processed in stripe transmission and afterwards are transmitted by waveguide elements to antenna for example.

### Developmental Status

- Lab tests, and Prototype

### Responsible Scientist

Peter Feil  
Ulm University  
Institute of Microwave techniques

### Branch

Microwave, Antenna, radio transmitting  
Devices

### Patent Status

De granted, EP,US patent application  
pending

### Reference Number

PVAUlm439

**Status: April-11**



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