

Title (en)  
ARRANGEMENT FOR COUPLING MICROWAVE ENERGY TO A LEAKY MICROWAVE LINE

Publication  
**EP 0285020 A3 19900404 (DE)**

Application  
**EP 88104822 A 19880325**

Priority  
DE 3711184 A 19870402

Abstract (en)  
[origin: US4847460A] A microwave apparatus injects microwave energy into a receptacle that is at least partially transparent to microwave energy. The receptacle has a window of microwave transparent material. The apparatus includes at least one microwave transmitter and one open microwave guide which is connected to the microwave transmitter and which is situated in the immediate vicinity of the receptacle. The open microwave guide has a plurality of parallel rungs and forming a slow - wave structure of the strapped bar type. The microwave guide is of a symmetrical V-shape, and at the apex of the V it is at a smaller distance from the window than at its feed point. A microwave feeder is disposed at at least both ends of the open microwave guide.

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**H01P 5/12**; **H05B 6/70**

IPC 8 full level  
**H01P 5/12** (2006.01); **H05B 6/70** (2006.01)

CPC (source: EP US)  
**H01P 5/12** (2013.01 - EP US); **H05B 6/70** (2013.01 - EP US); **H05B 6/78** (2013.01 - EP US)

Citation (search report)  
• [A] EP 0027471 A1 19810429 - OSAKA GAS CO LTD [JP], et al  
• [A] FR 2520160 A1 19830722 - SAIREM SARL [FR]  
• [A] FR 2525063 A1 19831014 - TOYODA GOSEI KK [JP]  
• [A] EP 0085110 A1 19830810 - MATSUSHITA ELECTRIC IND CO LTD [JP]  
• [A] EP 0036040 A1 19810923 - BOSCH GMBH ROBERT [DE]  
• [AP] US 4688009 A 19870818 - FERGUSON PATRICK E [US], et al  
• [AD] DE 1029963 B 19580514 - DEUTSCHE MIKROWELLEN GMBH  
• [X] PATENT ABSTRACTS OF JAPAN, Band 7, Nr. 229 (E-203)[1374], 12. Oktober 1983; & JP-A-58 120 303 (SANYO DENKI K.K.) 18-07-1983

Cited by  
FR2685821A1; EP0486943A1; US5173640A

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