

Title (en)

Electrically switched multiport microwave launcher

Title (de)

Elektrisch geschalter mehrtoriger Mikrowellenerreger

Title (fr)

Lanceur multiport à micro-ondes commuté électriquement

Publication

EP 0867964 A1 19980930 (EN)

Application

EP 97301986 A 19970324

Priority

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Abstract (en)

A microwave launcher (20) includes a hollow microwave cavity (22) in the shape of a plus sign, four coplanar exit ports (34) in the arms (24) of the microwave cavity (22), and a non-coplanar entry port (30) at a central hub (26) of the microwave cavity (22). A single magnetron (32) is in communication with the entry port (30). There is a controllable, electrically activated microwave barrier (38) at each of the exit ports (34). Each microwave barrier (38) includes an electrical signal input whose operation controls the activation of the microwave barrier (38). A switching circuit (60) has a voltage source for the electrical signal input of each of the microwave barriers (38). Microwave power output from the single microwave source (32) is launched from the selected exit port (34) by using the switching circuit (60) to selectively block microwave passage through each of the nonselected exit ports (34), but to leave the selected exit port (34) unblocked. <IMAGE>

IPC 1-7

H01P 1/14

IPC 8 full level

H01P 1/14 (2006.01)

CPC (source: EP)

H01P 1/14 (2013.01)

Citation (search report)

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- [Y] FR 1125450 A 19561030 - ERICSSON TELEFON AB L M
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Designated contracting state (EPC)

DE FR GB

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