

## Title (en)

Device and method for transmission of information for systems with radiating waveguides

## Title (de)

Vorrichtung und Verfahren zur Übertragung von Informationen für Systeme mit strahlenden Wellenleitern

## Title (fr)

Dispositif et procédé de transmission d'informations pour système à guide d'ondes rayonnant

## Publication

**EP 0789419 A1 19970813 (FR)**

## Application

**EP 97400236 A 19970203**

## Priority

FR 9601620 A 19960209

## Abstract (en)

The device includes a cavity resonator (1) which lies on one side of the waveguide (2) and is short-circuited at its ends. The resonator resonates in a fundamental TE<sub>011</sub> mode. The coupler comprises holes in the guide and the cavity and the resonant slot, lying at right angles to the slots in the waveguide, is directed from the large surface of the cavity towards the mobile unit. A Schottky diode, acting as a modulator (7), is positioned between the edges of the resonant slot and a point of high impedance at the required frequency. A device within the cavity generates the information signal to the diode which may short-circuit the slot depending on the signal polarity.

## Abstract (fr)

La présente invention porte sur un dispositif et un procédé de transmission d'informations pour système à guide d'ondes rayonnant (2), guide d'ondes le long duquel se déplace un mobile. Le dispositif de transmission est caractérisé en ce qu'il comporte: des moyens pour injecter une onde porteuse non modulée dans ledit guide d'ondes rayonnant, des moyens de prélèvement ponctuel (3,4), le long dudit guide d'ondes rayonnant (2), d'une partie de l'énergie de ladite onde porteuse non modulée, des moyens de modulation (7,8) pour appliquer à ladite onde porteuse non modulée un signal de modulation local représentant l'information destinée audit mobile, et des moyens (5) pour rayonner, à destination dudit mobile, ladite onde porteuse modulée. <IMAGE>

## IPC 1-7

**H01Q 1/32**; **H01Q 21/00**; **B61L 3/22**; **B61L 25/02**

## IPC 8 full level

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## Citation (search report)

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