

Title (en)  
PASSIVE MODULATION OF ELECTROMAGNETIC SIGNALS

Title (de)  
PASSIVE MODULATION VON ELEKTROMAGNETISCHEN SIGNALLEN

Title (fr)  
MODULATION PASSIVE DE SIGNAUX ELECTROMAGNETIQUES

Publication  
**EP 0907896 A1 19990414 (FR)**

Application  
**EP 98901365 A 19980102**

Priority  
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Abstract (en)  
[origin: FR2758190A1] The invention concerns a set for detecting data consisting of a transmitter, a receiver, a passive modulator (operating without using energy) modulating by absorbing and polarising electromagnetic waves. This device for detecting data (coding, reading and identifying ) by means of the transmitter (1) emits electromagnetic pulses of different wavelengths. These emitted electromagnetic waves with random elliptical polarisation will reach the modulator (3). Of these frequencies, which are at first focused inside the modulator, some will be absorbed while others will be polarised in a straight line in a certain manner, then reflected. The absorption of certain wavelengths and the polarisation and reflection of the non-absorbed wavelengths are carried out according to a coding of the data to be transmitted. Then, the polarised and reflected wavelengths (4) return on the receiver (5), which detects the returned wavelengths as well as their polarised condition. A decoding of the absence of the wavelengths received with respect to those emitted by the transmitter (1) and a measurement of the variations in polarisation between the received wavelengths enable the recognition of an identification code of an information.

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IPC 8 full level  
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