

A B S T R A C T

A SYSTEM FOR EXCHANGING DATA BY CONTACTLESS COMMUNICATION
BETWEEN A TERMINAL AND REMOTELY POWERED PORTABLE OBJECTS

5 The terminal (100) includes a coil (102) co-
operating with data transmitter/receiver means (108-118).
The portable object (200) includes a remotely powered
electric circuit comprising: a coil (202) for picking up
10 the modulated magnetic field from the terminal or for
responding by producing modulated disturbance of said
magnetic field; converter means comprising a rectifier
stage (210) and a filter stage (212) transforming the
magnetic field picked up by the coil into a DC power
15 supply voltage (d); and data transmitter/receiver means,
the receiver means including means (218) for demodulating
the amplitude of the signal picked up by the coil, said
amplitude demodulator means operating on the signal (b)
output by the rectifier and filter stages. Each of the
20 coils (102, 202) forms a portion of a tuned resonant
circuit (106, 208) radiating the field in free space.
The amplitude modulation is low depth modulation, with a
modulation ratio that is typically less than or equal to
50%.

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Translation of the title and the abstract as they were when originally filed by the Applicant.

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No account has been taken of any changes that may have been made subsequently by the PCT

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