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United States Patent [19]

Cole

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[45]

6,144,299

[54]	PRESENCE AND DATA LABELS		
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[73]	Assignee: Integrated Silicon Design Pty. Ltd., Australia		
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	PCT Pub. Date:	Jan. 15, 1998	
[30]	Foreign A	pplication Priority Data	
Jul. 5, 1996 [AU] Australia PO 0855			
[52]	U.S. Cl		
[00]	rielu of Search	1 340/374.1, 374.2,	

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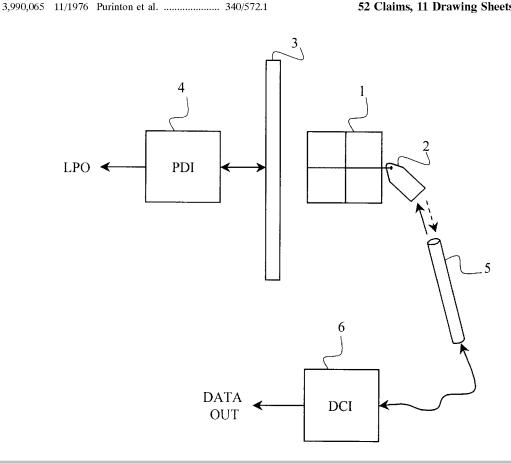
45523/96 8/1996 Australia . 0 324 564 7/1989 European Pat. Off. . 90/09707 8/1990 WIPO.

Primary Examiner—Daniel J. Wu Assistant Examiner—John Tweel, Jr. Attorney, Agent, or Firm-Larson & Taylor, PLC

ABSTRACT [57]

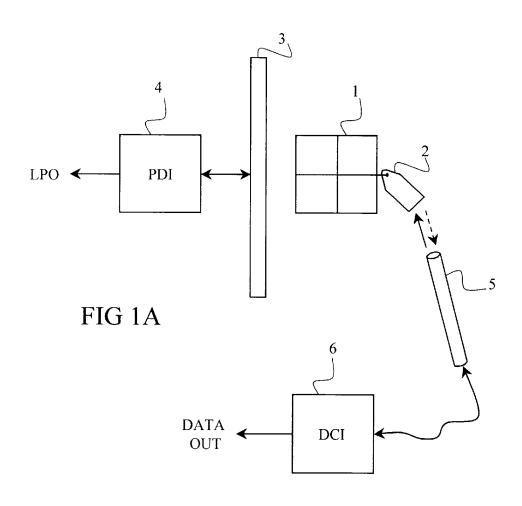
A system for detecting presence of and for communicating with an electronic coded label. The coded label includes a presence signaling antenna, a label circuit and a data communications antenna. The system includes presence detection means for creating a presence detection electromagnetic field and data communications means for creating an interrogation electromagnetic field. The label circuit is adapted to operate in a first mode when the electromagnetic field to which the label is exposed is at a first power level, said first mode being that of a linear circuit with an impedance dependent upon frequency. The label circuit is adapted to operate in a second mode when the electromagnetic field to which the label is exposed is at a second power level, said second mode being that of a non-linear circuit with behavior dependent upon time.

52 Claims, 11 Drawing Sheets





[56]



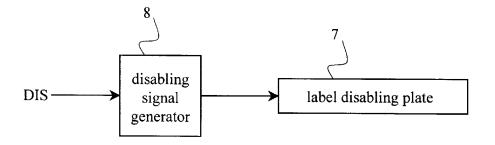


FIG 1B

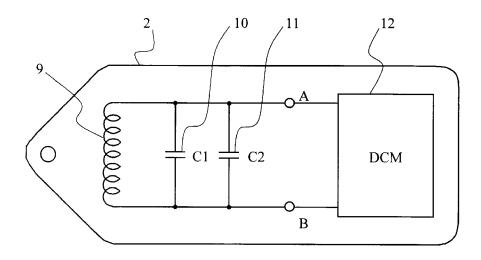


FIG 2

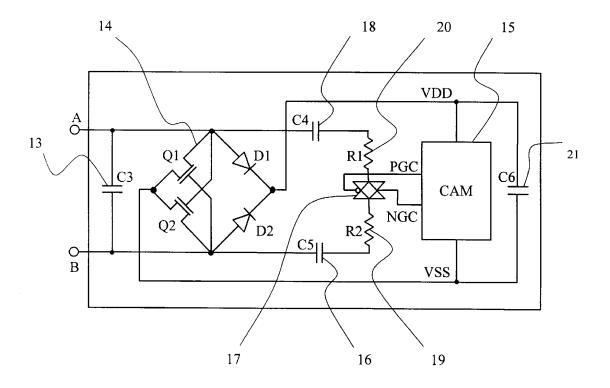


FIG 3

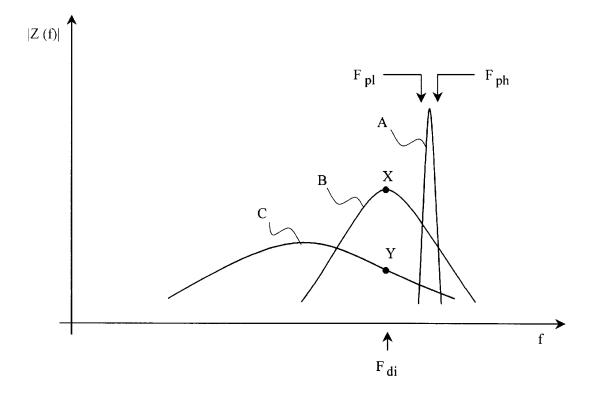


FIG 4

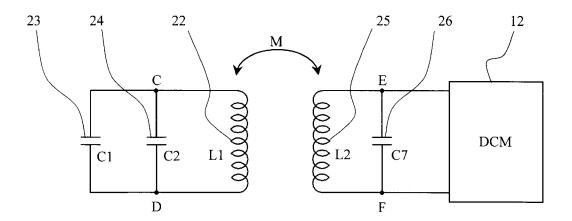


FIG 5

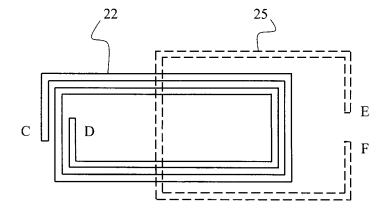


FIG 6

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