

Title (en)
ELECTRONIC CONTROL SYSTEM/NETWORK

Title (de)
ELEKTRONISCHES STEUERUNGSSYSTEM UND -NETZWERK

Title (fr)
SYSTEME ET RESEAU ELECTRONIQUE DE COMMANDE

Publication
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Application
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Priority
US 9514376 W 19951106

Abstract (en)
[origin: WO9717683A1] A network system of programmable fixed position nodes (20) and movable tag nodes (1) provides direct inter-node communication capability. The individual nodes are pre-programmed to recognize external environmental conditions and to logically act on the basis of recognized condition parameters, and to communicate with other nodes. Each node comprises an IC (2) having three independent processors (3, 4, 5) which share a common memory (7, 28) and control circuitry (6, 27) but have separate sets of registers. A first processor (3) provides media access control and communication between the nodes and includes transceiver elements (9, 36) for receiving and transmitting information. A second processor (5) runs code written for the particular use, as well as the overall operating system, which is provided with direct linkage to i/o means (11, 31) for initial processing based on environmental conditions. The third processor (4) links the applications processor (5) with the communication processor (3), and handles network variable processing, addressing, etc. The nodes provide an independently operable overall network.

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IPC 8 full level
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