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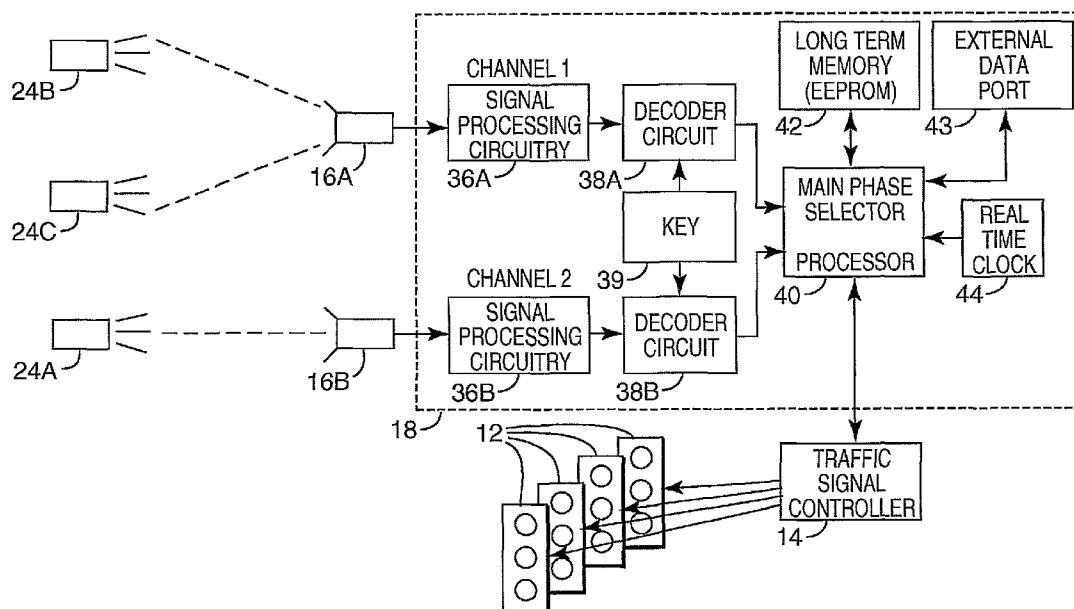
- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
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(54) Title: **TRAFFIC PREEMPTION SYSTEM COMMUNICATION METHOD**



(57) Abstract: A remotely-controlled traffic preemption system and method includes an encoder circuit, an optical source, an optical detector, and a decoder circuit. The encoder circuit is adapted to generate a set of signal pulses. At least one bit of a data word is encoded as a function of amplitude modulation of a first subset of the set of signal pulses and at least another bit of the data word is encoded as a function of frequency modulation of a second subset of the set of signal pulses. The optical source is adapted to transmit a set of light pulses having a respective light pulse for each signal pulse of the set of signal pulses. The optical detector is adapted to receive the set of light pulses. The decoder circuit is adapted to generate the data word from the set of light pulses received at the optical detector.



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