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(54) **REMOTE VEHICLE SECURITY SYSTEM**

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G06F 7/00 (2006.01)
G08B 29/00 (2006.01)
H04B 1/00 (2006.01)
H04Q 9/00 (2006.01)

(52) **U.S. Cl.** **340/5.5**; 340/5.64; 340/466

(58) **Field of Classification Search** 340/5.5, 340/825.69, 825.72, 825.22, 5.64, 463, 464–467, 340/905, 932, 396; 307/10.3, 10.5; 701/29, 701/35, 93, 97
See application file for complete search history.

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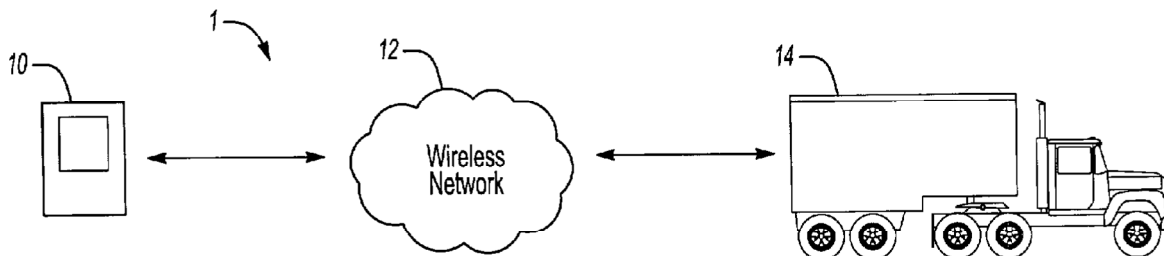
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Assistant Examiner—Nam Nguyen
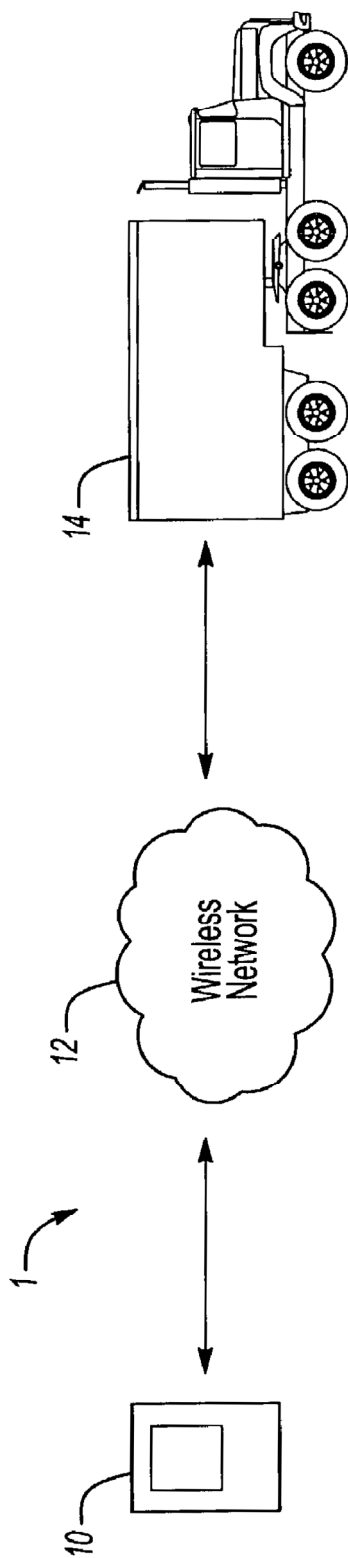(74) *Attorney, Agent, or Firm*—McDonnell Boehnen Hulbert & Berghoff LLP
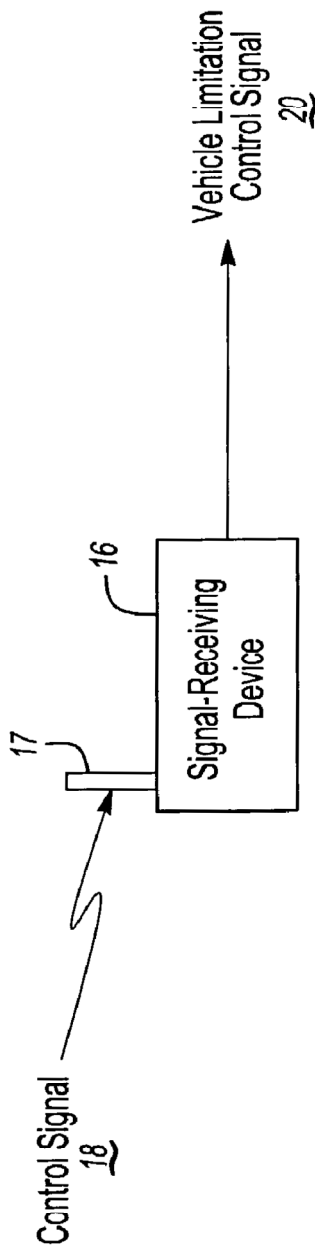
(57) **ABSTRACT**

A system and method for selectively limiting at least one operational characteristic, such as maximum speed, of a vehicle. A vehicle limitation control signal is supplied to the vehicle over a wireless communication network. In response to the limitation control signal, the maximum speed of the vehicle is limited.
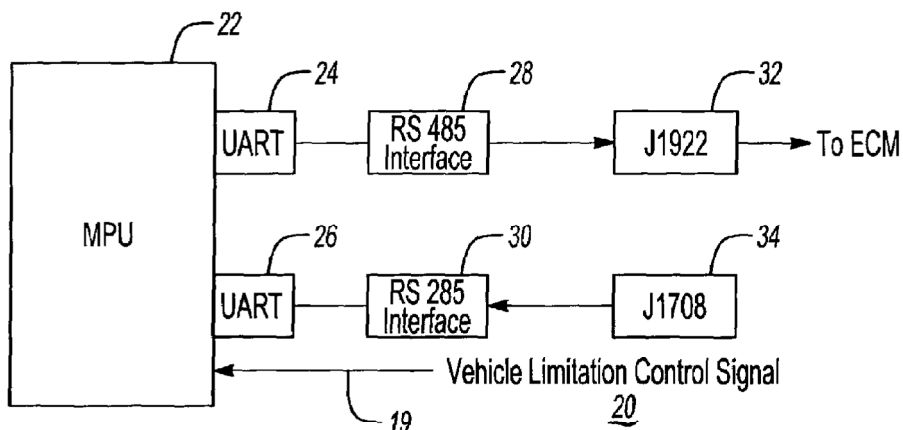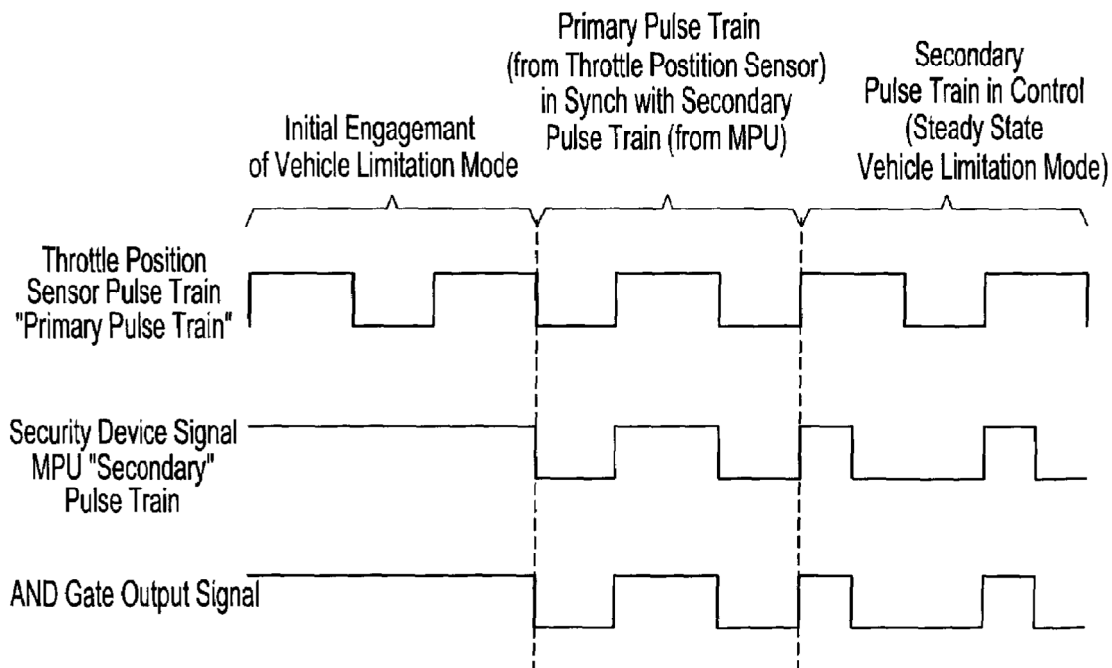
33 Claims, 7 Drawing Sheets

Fig-1

Fig-2

_22

_24   _28   _32

| MPU | UART | RS 485 Interface | J1922 | → To ECM |

_26   _30   _34

| UART | RS 285 Interface | J1708 |

← Vehicle Limitation Control Signal

_19   20

<u>Fig-3</u>

Initial Engagement of Vehicle Limitation Mode

Primary Pulse Train (from Throttle Postition Sensor) in Synch with Secondary Pulse Train (from MPU)

Secondary Pulse Train in Control (Steady State Vehicle Limitation Mode)

Throttle Position Sensor Pulse Train "Primary Pulse Train"

Security Device Signal MPU "Secondary" Pulse Train

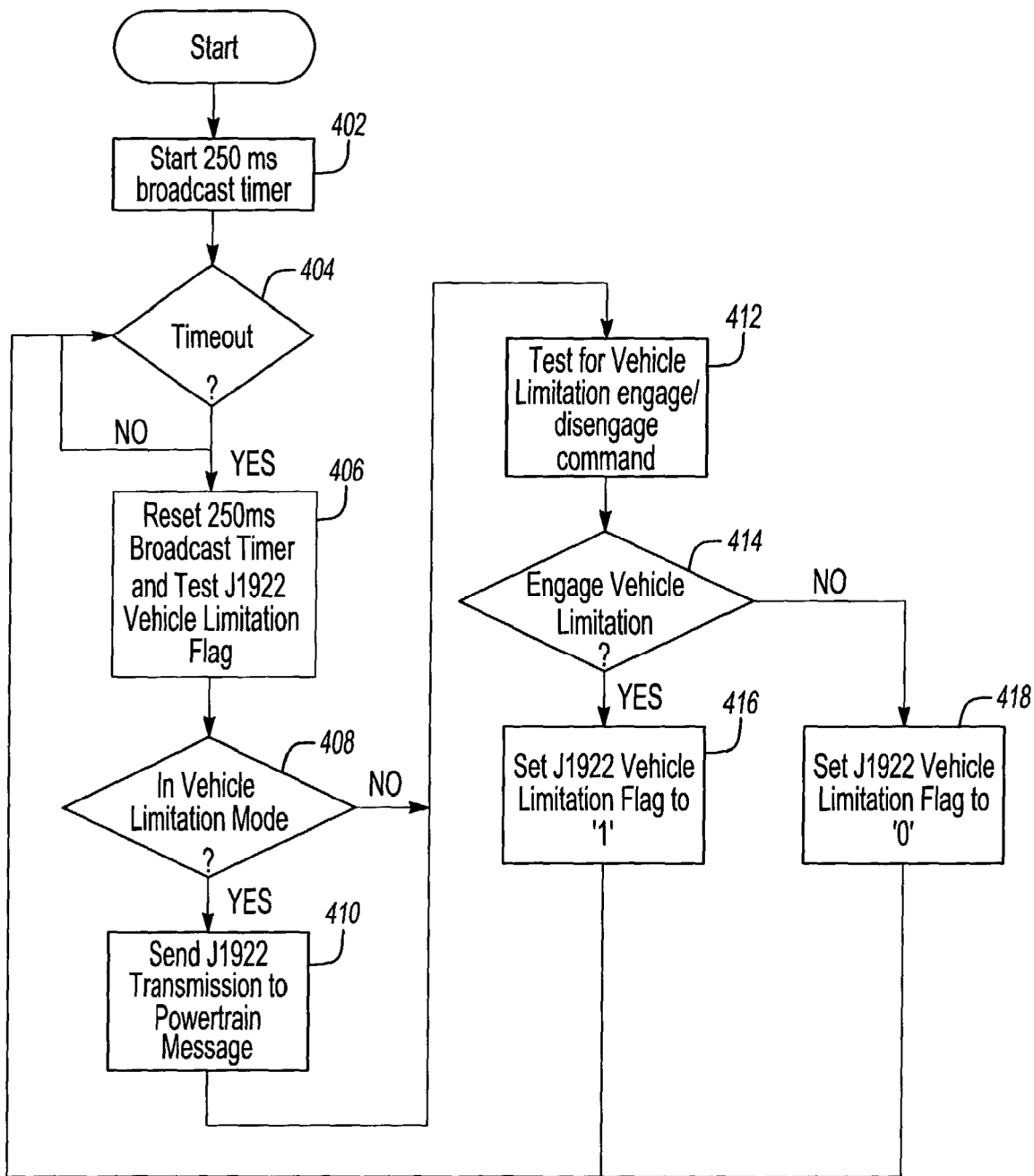AND Gate Output Signal

<u>Fig-6</u>

Fig-4

Fig-5

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