UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

SCHRADER-BRIDGEPORT INTERNATIONAL, INC. and SCHRADER ELECTRONICS, INC.
Petitioner

v.

CONTINENTAL AUTOMOTIVE SYSTEMS US, INC.
Patent Owner

Case IPR2013-00014
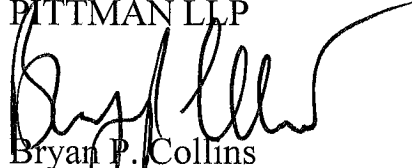Patent No. 6,998,973

PETITIONER ORAL ARGUMENT DEMONSTRATIVES

Pursuant to 37 C.F.R. § 42.70(b) and the Board's Order (Paper 25),

Petitioner Schrader-Bridgeport International, Inc. and Schrader Electronics, Inc.

("Schrader") files herewith the following demonstrative exhibits for the oral

hearing scheduled for December 11, 2013.

- SCHRADER DX-1: Derbyshire (Exhibit 1003 – FIGS. 6(I) and 6(II) (annotated))

- SCHRADER DX-2: Bailie (Exhibit 1006 – FIGS. 1 and 4; col. 6, ll. 42-58)

- SCHRADER DX-3: Bowers (Exhibit 1005 – FIG. 4b; col. 8, ll. 19-28)

Respectfully submitted,
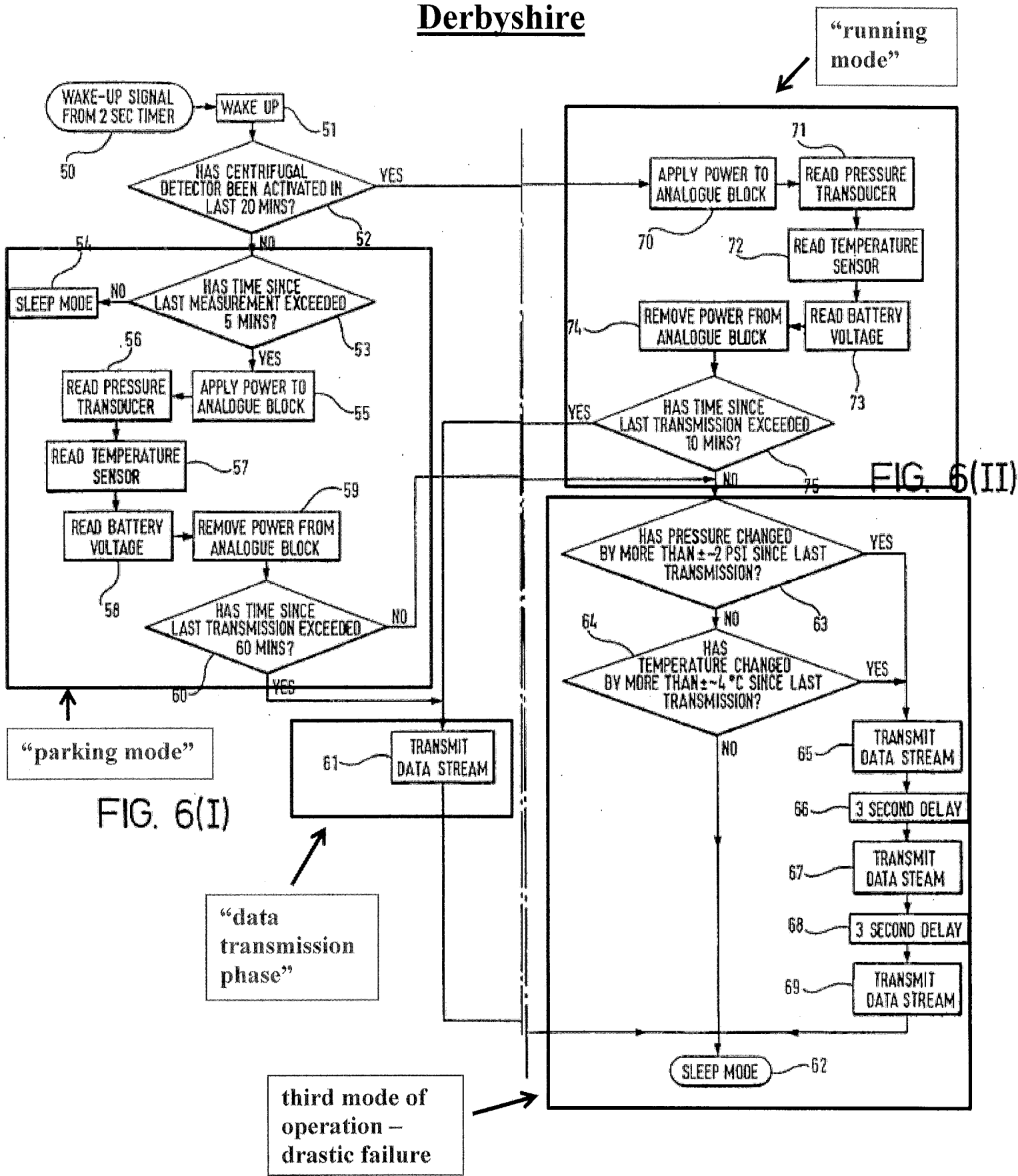
PILLSBURY WINTHROP SHAW PITTMAN LLP

Dated: December 4, 2013

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Derbyshire

"running mode"

WAKE-UP SIGNAL FROM 2 SEC TIMER — 50 → WAKE UP — 51

HAS CENTRIFUGAL DETECTOR BEEN ACTIVATED IN LAST 20 MINS? — 52 — YES

NO

54 — SLEEP MODE ← NO — HAS TIME SINCE LAST MEASUREMENT EXCEEDED 5 MINS? — 53

YES

56 — READ PRESSURE TRANSDUCER ← APPLY POWER TO ANALOGUE BLOCK — 55

READ TEMPERATURE SENSOR — 57

READ BATTERY VOLTAGE — 58 → REMOVE POWER FROM ANALOGUE BLOCK — 59

HAS TIME SINCE LAST TRANSMISSION EXCEEDED 60 MINS? — 60 — NO

YES

71 — APPLY POWER TO ANALOGUE BLOCK — 70 → READ PRESSURE TRANSDUCER

READ TEMPERATURE SENSOR — 72

74 — REMOVE POWER FROM ANALOGUE BLOCK ← READ BATTERY VOLTAGE — 73

YES — HAS TIME SINCE LAST TRANSMISSION EXCEEDED 10 MINS? — 75

NO

FIG. 6(II)

"parking mode"

FIG. 6(I)

"data transmission phase"

61 — TRANSMIT DATA STREAM

HAS PRESSURE CHANGED BY MORE THAN ±~2 PSI SINCE LAST TRANSMISSION? — 63 — YES

NO

64 — HAS TEMPERATURE CHANGED BY MORE THAN ±~4 °C SINCE LAST TRANSMISSION? — YES

NO

65 — TRANSMIT DATA STREAM

66 — 3 SECOND DELAY

67 — TRANSMIT DATA STEAM

68 — 3 SECOND DELAY

69 — TRANSMIT DATA STREAM

SLEEP MODE — 62

"third mode of operation – drastic failure"

SCHRADER DX-1: Exhibit 1003 (FIGS. 6(I) and 6(II)) (annotated)
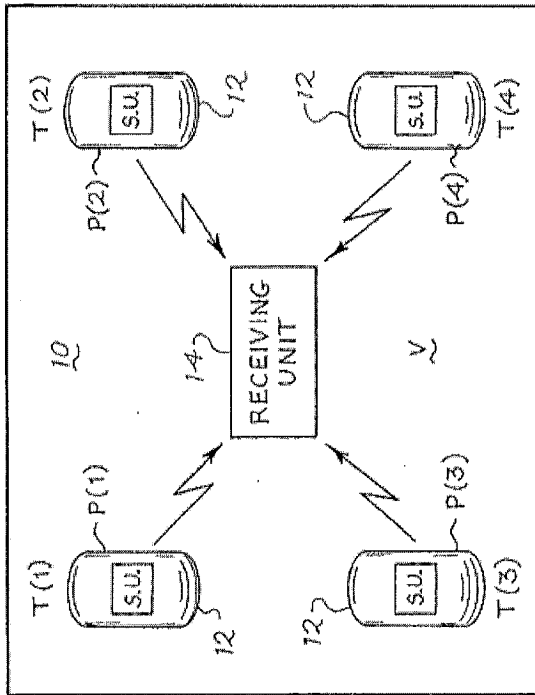
Bailie

In one embodiment, the roll switch **64** closes at a specified g force value which is selected from a range of values. In one example, the range of g force values varies from 6.1 to 12.2 times the acceleration due to gravity. The selected g force value for a particular roll switch **64** is set randomly during manufacture of the transmitter **12**. The roll switches as supplied have a natural spread of switching points. In this manner, each of the respective transmitters **12** associated with the tire of a vehicle will employ differing g force values for activating the increased pressure monitoring mode. Since this mode corresponds to an increase in RF transmissions by the transmitter **12** as well as all other transmitters used by the vehicle, this mode will correspond to an increased likelihood of clashing at the receiver. By spreading the a range of g force values at which the transmitters switch to the increased pressure monitoring mode, the likelihood of clashing or word collision at the receiver is decreased.
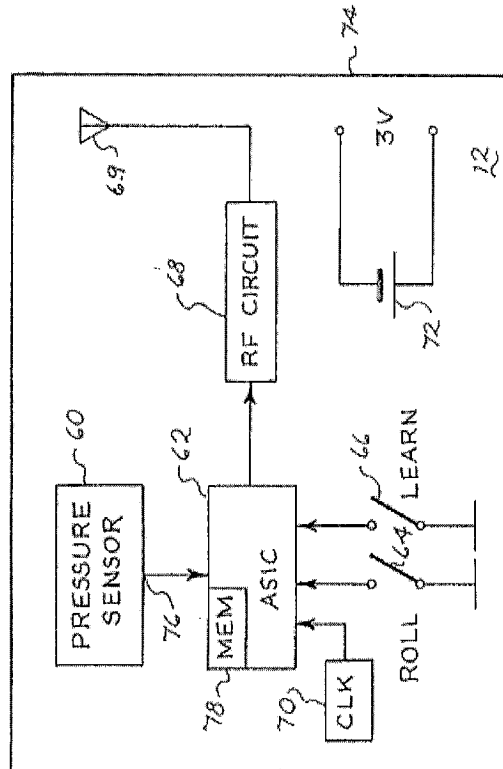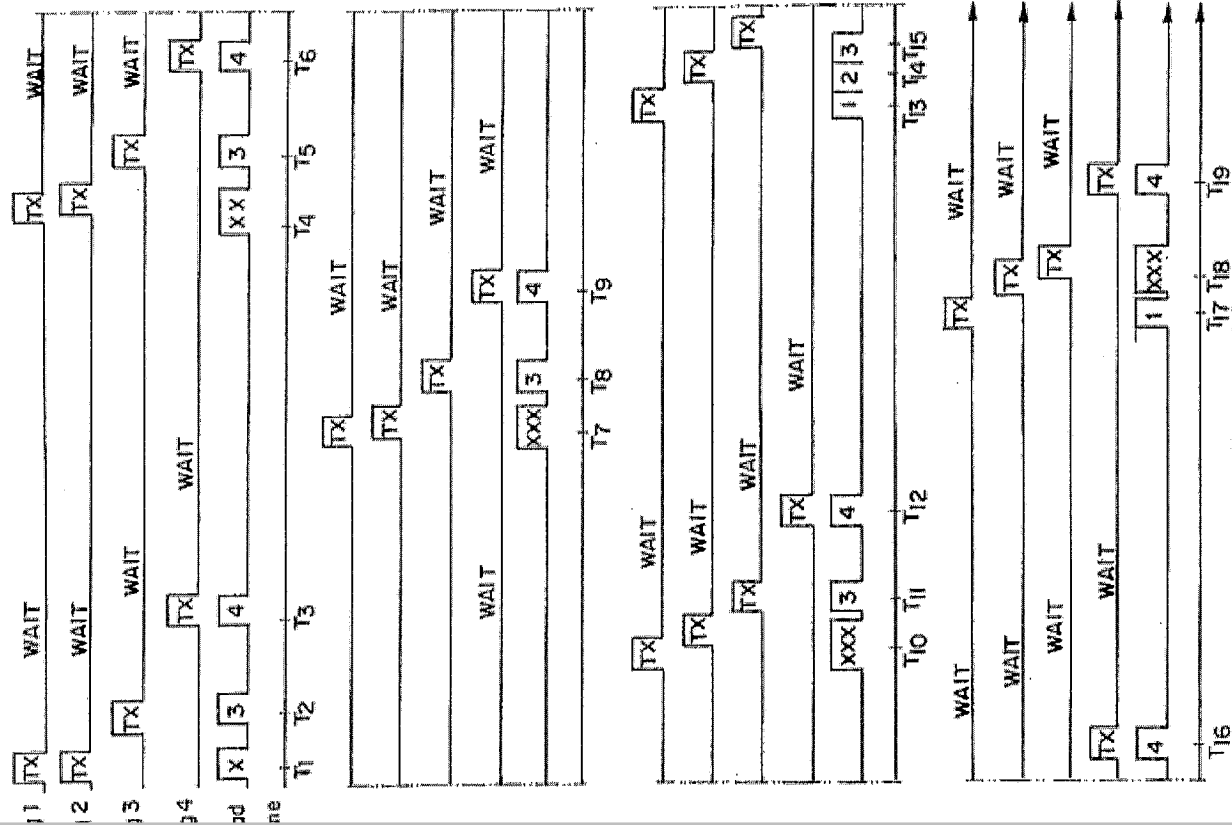

Fig. 1

Fig. 4

HRADER DX-2: Exhibit 100 (FIGS. 1 and 4; col. 6, ll. 42-58)

As previously discussed, the timing circuit **19** establishes the length of the non-transmission interval **38**, which is preferably of generally fixed length. However, it has been determined that by constructing the timing circuit **19** using electrical components of a predetermined tolerance level, such as a +/-20% tolerance, that although the non-transmission interval **38** is a fixed length for a particular device, the length of the non-transmission interval varies among a plurality devices due solely to the manufacturing tolerance, which decreases the probability that two or more devices will transmit their memory data **36** at the same instant in time. That is, varying the length of the non-transmission interval **38** among various devices **10** desynchronizes transmissions between devices **10**. In contrast, if

FIG. 4b

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