

- 20 -

being provided for determining both of said measured location and measured speed of the vehicle,

5 means for communicating recorded data from the data storing means to a remote monitoring station.

12. A system as claimed in claim 11 wherein means is provided for adjusting the selected time intervals between recordal of data in response to the measured speed of the vehicle.
- 10 13. A system as claimed in claim 12 wherein the selected time intervals are inversely proportional to the speed of the vehicle.
14. A system as claimed in any of claims 11 to 13 wherein means is provided for adjusting the selected time intervals between recordal of data in response to the measured rate of change of speed of the vehicle.
- 15 15. A system as claimed in claim 14 wherein the selected time intervals are adjustable in inverse proportion to the rate of change of the speed of the vehicle.
- 20 16. A system as claimed in claim 14 wherein means is provided for sensing a sudden deceleration of the vehicle, said means being operably connected to the means for adjusting the time interval between recordal of data to reduce said time intervals in response to a sudden deceleration of the vehicle.
- 25 17. A system as claimed in claim 14 wherein means is provided for sensing a sudden acceleration of the vehicle, said means being operably connected to the means for adjusting the time interval between recordal of data to reduce said time interval in response to a sudden acceleration of the vehicle.
- 30 18. A system as claimed in any of claims 11 to 17 wherein the communicating means is an SMS system.

19. A system as claimed in any of claims 11 to 17 wherein the communicating means is a GPRS system.

5 20. A system as claimed in any of claims 11 to 19 wherein the remote monitoring station has a GPS map with defined maximum speed limits associated with each location on said GPS map,

10 means for comparing measured vehicle location data communicated to the remote monitoring station with the GPS map and assigning the relevant maximum speed limit to each measured location, and

15 means for generating a report profile of vehicle operation indicating the measured speed of the vehicle, the associated measured location of the vehicle and the maximum speed limit for said measured location.

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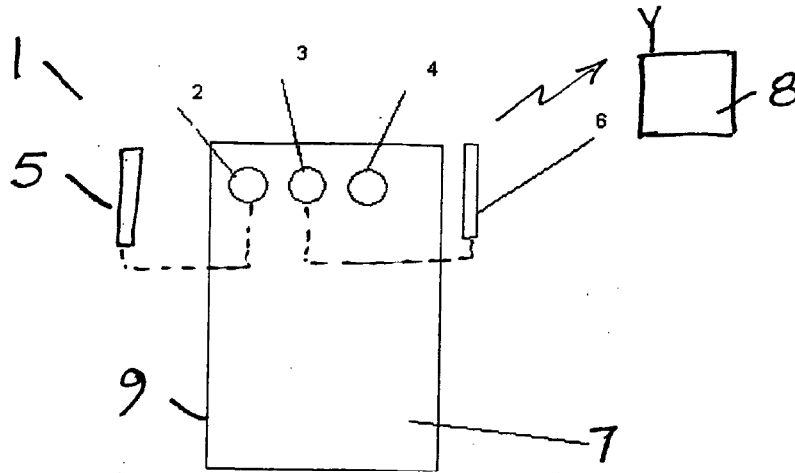


Fig 1

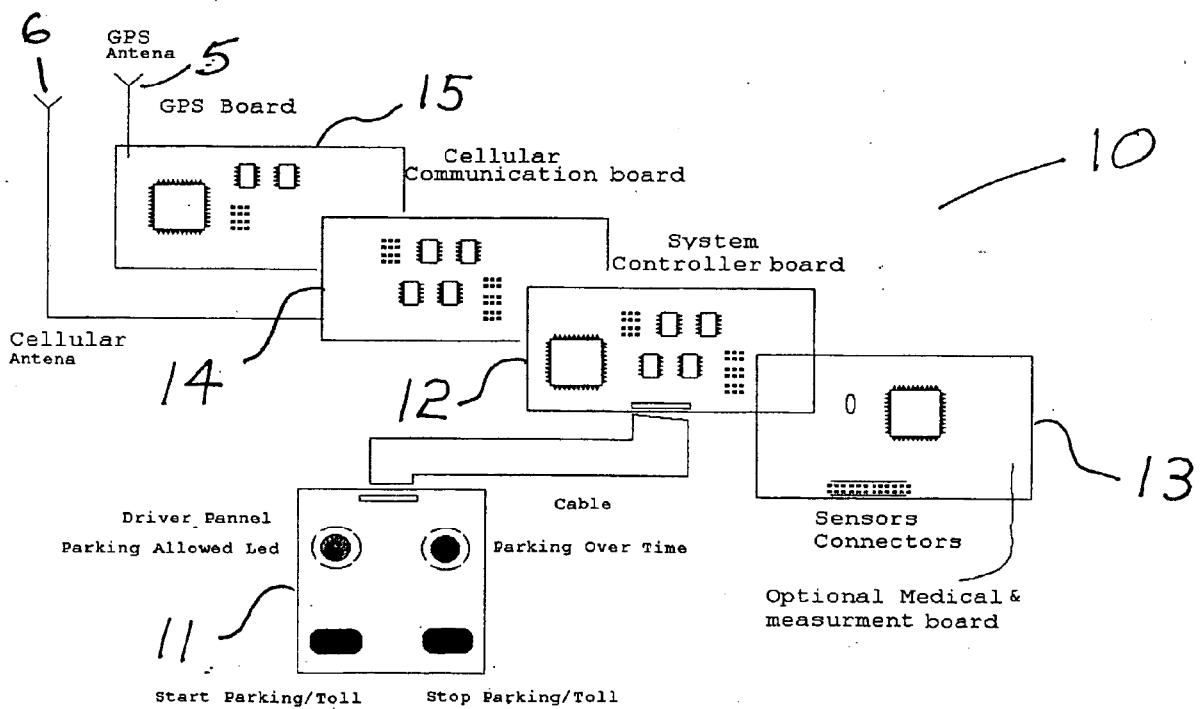
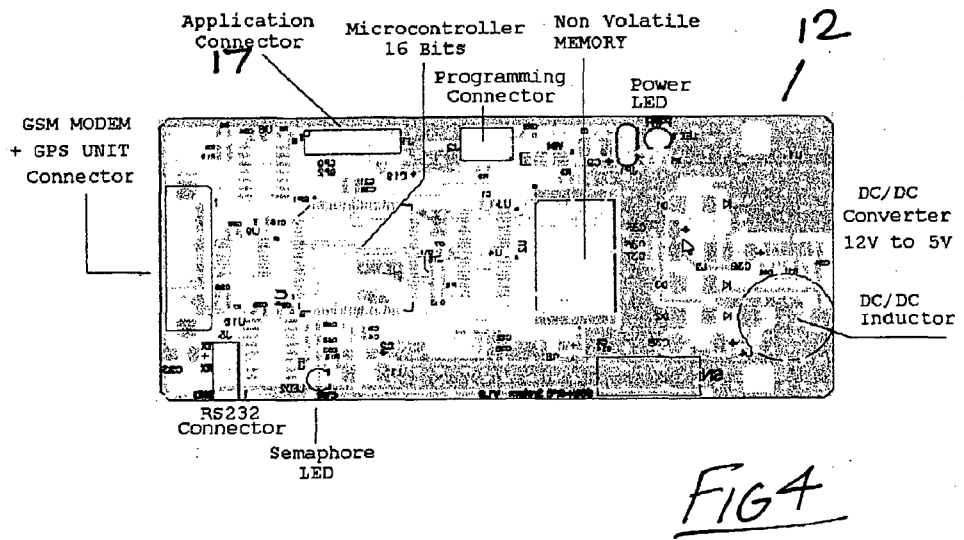
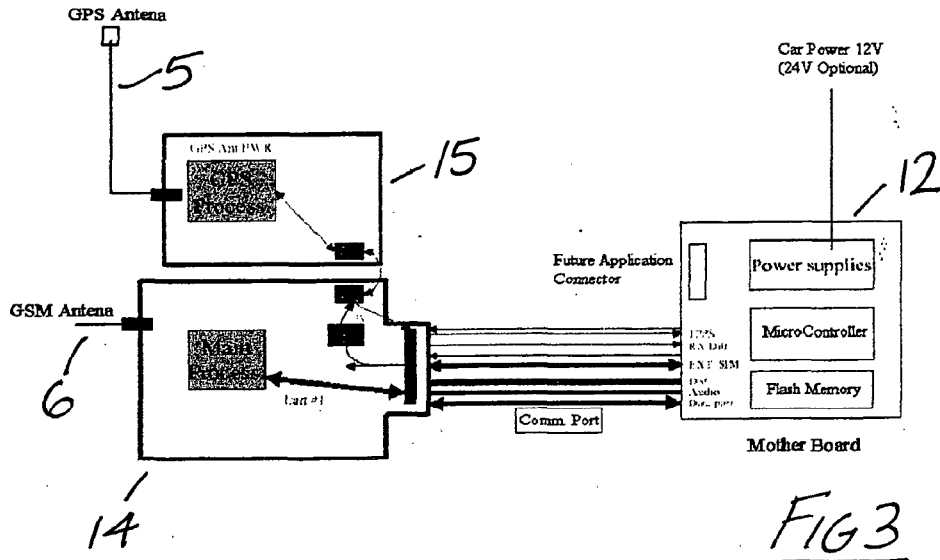


Fig 2



Summary Report

| Driving Profile | |
|---|--|
| 84.34% Time spent driving within guidelines | |
| 8.62% Up to 10 mph above guidelines | |
| 4.69% Between 10 and 20 mph above g/lines | |
| 1.33% Between 20 and 30 mph above g/lines | |
| 0.99% Between 30 and 40 mph above g/lines | |
| 0.00% Over 40 mph above guidelines | |

TABLE 1

| Maximum Speeds | |
|----------------|-------|
| Zone | Speed |
| 30 MPH | 65.5 |
| 40 MPH | 65.7 |
| 50 MPH | 63.5 |
| 60 MPH | 68.5 |
| 70 MPH | 79.8 |

TABLE 2

| Vehicle Moving | | | |
|----------------|---------------|------------|-------|
| | Hours Between | | |
| | 7:00-23:00 | 23:00-7:00 | Total |
| 2-10-02 | 2.13 | 0.15 | 2.28 |
| 3-10-02 | 2.60 | 0.05 | 2.65 |
| 4-10-02 | 3.97 | 0.05 | 4.02 |
| 5-10-02 | 4.98 | 0.01 | 4.99 |
| 6-10-02 | 3.44 | 0.05 | 3.49 |

TABLE 3

| Vehicle Parked | | | |
|----------------|---------------|------------|-------|
| | Hours Between | | |
| | 7:00-23:00 | 23:00-7:00 | Total |
| Haddington Rd | 6.84 | 0.00 | 6.84 |
| Kildare | 0.35 | 0.00 | 0.35 |
| Lr Mount St | 17.82 | 0.00 | 17.82 |
| Maynooth | 32.37 | 37.12 | 69.49 |
| Other | 0.82 | 0.00 | 0.82 |
| Palmerstown | 4.74 | 0.00 | 4.74 |

TABLE 4

| Sudden Acceleration | | | | |
|---------------------|----------|----------|--------|-----------------------|
| Date | Time | From MPH | To MPH | Time Taken In Seconds |
| 05/10/02 | 11:14:51 | 20.3 | 48.8 | 5 |
| 05/10/02 | 10:40:57 | 12.0 | 38.3 | 7 |
| 04/10/02 | 19:42:52 | 17.0 | 38.0 | 6 |
| 05/10/02 | 13:44:34 | 9.0 | 36.9 | 8 |

TABLE 5

| Harsh Braking | | | | |
|---------------|---------|----------|--------|-----------------------|
| Date | Time | From MPH | To MPH | Time Taken In Seconds |
| 04/10/02 | 6:46:14 | 38.4 | 3.0 | 5 |
| 04/10/02 | 0:18:23 | 40.2 | 14.0 | 4 |
| 06/10/02 | 8:25:17 | 32.8 | 2.8 | 5 |
| 05/10/02 | 1:14:55 | 48.8 | 25.2 | 4 |
| 06/10/02 | 3:08:31 | 28.8 | 0.6 | 5 |
| 05/10/02 | 4:54:53 | 31.0 | 3.2 | 5 |

TABLE 6

| Area of Main Use | |
|------------------|-------|
| Location | Use % |
| Kildare | 30.36 |
| DublinCounty | 25.41 |
| DublinCity | 9.78 |
| Meath | 9.76 |
| Galway | 9.75 |
| Westmeath | 8.14 |
| Kilkenny | 2.70 |
| Roscommon | 1.85 |
| Carlow | 1.66 |
| Offaly | 0.58 |

TABLE 7

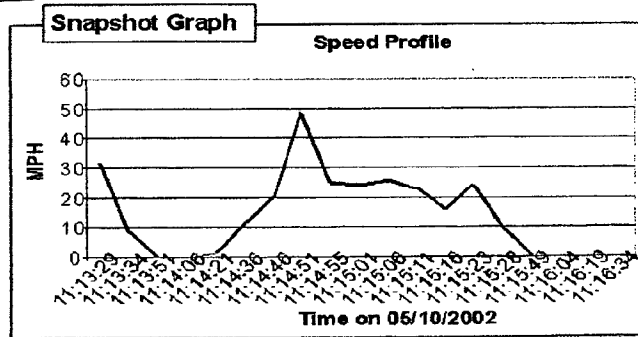


TABLE 8

| Data Snapshot | |
|---------------------------|----------------------------------|
| +53*21'25.64,-08*22'12.66 | 10:13:29.05:10:02:111.9,032.1,06 |
| +53*21'24.94,-08*22'09.98 | 10:13:34.05:10:02:114.7,009.7,05 |
| +53*21'24.98,-08*22'08.72 | 10:13:51.05:10:02:012.4,000.0,04 |
| +53*21'25.05,-08*22'09.72 | 10:14:06.05:10:02:226.8,000.1,04 |
| +53*21'25.12,-08*22'09.61 | 10:14:21.05:10:02:104.8,001.3,04 |
| +53*21'22.29,-08*22'07.54 | 10:14:36.05:10:02:170.3,011.4,07 |
| +53*21'18.83,-08*22'04.73 | 10:14:46.05:10:02:179.2,020.9,09 |
| +53*21'15.15,-08*22'04.48 | 10:14:51.05:10:02:175.4,048.8,08 |
| +53*21'12.72,-08*22'04.87 | 10:14:55.05:10:02:184.9,025.2,06 |
| +53*21'09.85,-08*22'05.71 | 10:15:01.05:10:02:189.7,024.4,07 |
| +53*21'08.82,-08*22'06.52 | 10:15:06.05:10:02:189.7,025.8,05 |
| +53*21'03.85,-08*22'07.18 | 10:15:11.05:10:02:189.7,022.8,08 |
| +53*21'03.12,-08*22'09.78 | 10:15:16.05:10:02:274.8,015.8,07 |
| +53*21'04.07,-08*22'16.26 | 10:15:23.05:10:02:283.2,024.4,09 |

TABLE 9

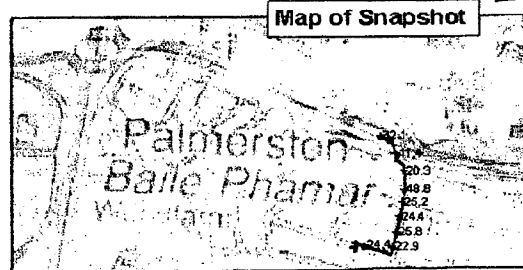


TABLE 10

FIG 5

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