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UTILITY PATENT APPLICATION TRANSMITTAL (Small Entity) *(Only for new nonprovisional applications under 37 CFR 1.53(b))*	Docket No. P07 42750
	Total Pages in this Submission 23

TO THE ASSISTANT COMMISSIONER FOR PATENTS
Box Patent Application
Washington, D.C. 20231

Transmitted herewith for filing under 35 U.S.C. 111(a) and 37 C.F.R. 1.53(b) is a new utility patent application for an invention entitled:

CRUISE CONTROL INDICATOR

and invented by:

C. KUMAR N. PATEL

If a CONTINUATION APPLICATION, *check appropriate box and supply the requisite information:*

❑ **Continuation** ❑ **Divisional** ❑ **Continuation-in-part (CIP)** of prior application No.: _____

Which is a:

❑ **Continuation** ❑ **Divisional** ❑ **Continuation-in-part (CIP)** of prior application No.: _____

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Enclosed are:

Application Elements

1. ❑ Filing fee as calculated and transmitted as described below

2. ☒ Specification having _____19_____ pages and including the following:

    a. ☒ Descriptive Title of the Invention

    b. ☒ Cross References to Related Applications *(if applicable)*

    c. ❑ Statement Regarding Federally-sponsored Research/Development *(if applicable)*

    d. ❑ Reference to Microfiche Appendix *(if applicable)*

    e. ☒ Background of the Invention

    f. ☒ Brief Summary of the Invention

    g. ☒ Brief Description of the Drawings *(if drawings filed)*

    h. ☒ Detailed Description

    i. ☒ Claim(s) as Classified Below

    j. ☒ Abstract of the Disclosure

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Application Elements (Continued)

3. ☒ Drawing(s) *(when necessary as prescribed by 35 USC 113)*

   a. ☐ Formal   b. ☒ Informal   Number of Sheets   4

4. ☐ Oath or Declaration

   a. ☐ Newly executed *(original or copy)*   ☐ Unexecuted

   b. ☐ Copy from a prior application (37 CFR 1.63(d)) *(for continuation/divisional application only)*

   c. ☐ With Power of Attorney   ☐ Without Power of Attorney

   d. ☐ *DELETION OF INVENTOR(S)*
       Signed statement attached deleting inventor(s) named in the prior application,
       see 37 C.F.R. 1.63(d)(2) and 1.33(b).

5. ☐ Incorporation By Reference *(usable if Box 4b is checked)*
    The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied
    under Box 4b, is considered as being part of the disclosure of the accompanying application and is hereby
    incorporated by reference therein.

6. ☐ Computer Program in Microfiche

7. ☐ Genetic Sequence Submission *(if applicable, all must be included)*

   a. ☐ Paper Copy

   b. ☐ Computer Readable Copy

   c. ☐ Statement Verifying Identical Paper and Computer Readable Copy

Accompanying Application Parts

8. ☐ Assignment Papers *(cover sheet & documents)*

9. ☐ 37 CFR 3.73(b) Statement *(when there is an assignee)*

10. ☐ English Translation Document *(if applicable)*

11. ☐ Information Disclosure Statement/PTO-1449   ☐ Copies of IDS Citations

12. ☐ Preliminary Amendment

13. ☒ Acknowledgment postcard

14. ☒ Certificate of Mailing

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Accompanying Application Parts (Continued)

15. ☐ Certified Copy of Priority Document(s) *(if foreign priority is claimed)*

16. ☐ Small Entity Statement(s) - Specify Number of Statements Submitted: _____

17. ☐ Additional Enclosures *(please identify below):*

Fee Calculation and Transmittal

CLAIMS AS FILED

For	#Filed	#Allowed	#Extra	Rate	Fee
Total Claims	36	- 20 =	16	x $9.00	$144.00
Indep. Claims	10	- 3 =	7	x $39.00	$273.00
Multiple Dependent Claims (check if applicable) ☐					$0.00
				BASIC FEE	$380.00
OTHER FEE *(specify purpose)* _____					$0.00
				TOTAL FILING FEE	$797.00

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☐ The Commissioner is hereby authorized to charge and credit Deposit Account No. _____ as described below. A duplicate copy of this sheet is enclosed.

    ☐ Charge the amount of _____ as filing fee.

    ☐ Credit any overpayment.

    ☐ Charge any additional filing fees required under 37 C.F.R. 1.16 and 1.17.

    ☐ Charge the issue fee set in 37 C.F.R. 1.18 at the mailing of the Notice of Allowance, pursuant to 37 C.F.R. 1.311(b).

Dated: __May 12, 1999__

_____
Signature

Michael L. Crapenhoft
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cc:

A P P L I C A T I O N

OF

C. KUMAR N. PATEL

FOR

UNITED STATES LETTERS PATENT

ON

CRUISE CONTROL INDICATOR

Docket No.   P07 42750

Sheets of Drawings: 4

Attorneys

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Los Angeles, California 90071-2909
(213) 622-7700

CRUISE CONTROL INDICATOR

This application claims the benefit of U.S. Provisional Application No. 60/085,183, filed on May 12, 1998.

FIELD OF THE INVENTION

This invention relates to cruise control systems and more particularly to automotive cruise control systems which display preset speed information.

BACKGROUND OF THE INVENTION

The cruise control accessory found in many automobiles today can be characterized as a human-machine system. That is, while the cruise control feature offers the operator of a vehicle the benefit of speed control (machine) automation, it also requires significant human interface for its proper and safe operation. In particular, conventional cruise control systems require the operator to (1) turn on the cruise control system (by depressing or rocking a button on the steering wheel or dashboard), (2) achieve the desired cruising speed (by controlling the deflection of the accelerator), and then (3) engage, or set, the cruise control (by pressing another button typically located on the steering wheel or cruise control stalk shift).

Further, the conventional cruise control system is provided with a memory function that stores the set control speed. Thus, applying the brakes to temporarily slow down temporarily disengages the cruise control function. However, re-engaging the cruise control by depressing the "resume" button returns the automobile to the preset, memorized speed. Similarly, temporarily accelerating while the cruise control is engaged, as is done, for example, when passing other vehicles, does not disengage the system. Rather, when the accelerator is released, the automobile slows down until it returns to its set cruising speed and continues at that speed. In fact, the preset, memorized speed is typically canceled only if the cruise control system is turned off (by either depressing the system button or turning off the automobile) or if another speed is set into the memory.

Thus, the conventional cruise control system can be characterized as existing in any one of five modes. Those modes are: (1) cruise control system off - the car's speed is controlled manually; (2) system on, but not engaged - the car's speed is still controlled manually; (3) system on and engaged at a set speed- the car's speed is automatically

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