

UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

**SUBARU OF AMERICA, INC., TOYOTA MOTOR NORTH AMERICA, INC., FORD MOTOR
COMPANY, JAGUAR LAND ROVER NORTH AMERICA LLC, and VOLVO CARS OF
NORTH AMERICA LLC,
Petitioner,**

v.

**CRUISE CONTROL TECHNOLOGIES LLC,
Patent Owner.**

**Case IPR2014-00279
Patent 6,324,463 B1**

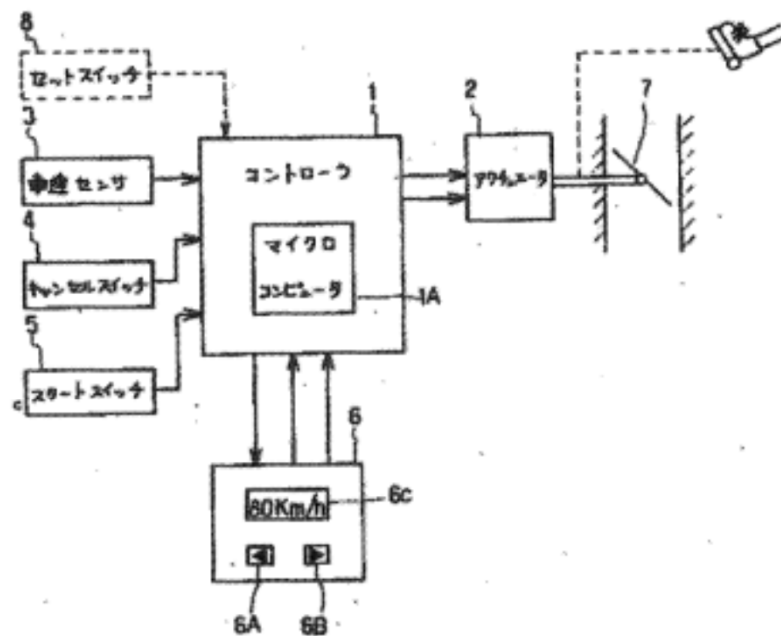
Patent Owner's Demonstrative Exhibits for Oral Hearing

Instituted Anticipation Grounds

- Ground A: JP S58-52708 (“Mizuno”) anticipates claims 1-3, 5, 12-14, 18, 21, 25, 26 and 34-36; and
- Ground B: JP H8-220118 (“Miura”) anticipates claims 1, 2, 12-16, 21, 25-27 and 29-31.

Mizuno – “Digital” Embodiment

Figure 1



- 8 Set switch
- 3 Vehicle speed sensor
- 4 Cancel switch
- 5 Start switch
- 1 Controller
- 1 A Microcomputer
- 2 Actuator

'463 Patent – Claim 2

2. A cruise control system for a variable speed vehicle controlled by a human operator, comprising:

(a) a speed controller for automatically maintaining the vehicle at a substantially constant cruising speed selected by the operator;

(b) a cruise control enable switch associated with the controller for enabling and disabling the controller;

(c) a set speed input in communication with the controller for selecting the cruising speed of the vehicle when the controller is enabled;

(d) a memory that stores information representative of the selected cruising speed; and

(e) a feedback system that substantially continuously communicates the selected cruising speed information to the operator of the vehicle until either the operator selects a subsequent cruising speed or the controller is disabled.

Mizuno's "key switch" is not a "cruise control enable switch"

- Mizuno's only discussion of "key switch"
 - "Now, if the key switch of the vehicle is turned on, the power source is supplied to the electric system of Figure 1, the microcomputer (1A) is power-on reset in controller (1), and the process starts from the step 11 of the program." (Ex. 1004, p. 4)
 - "This display continues while the key switch is turned on regardless of whether under speed control or not." (Ex. 1004, p. 5)
 - "To sum up the operation of this device, first, the initial value '80km/H' is displayed on the display device 6C by turning on the key switch." (Ex. 1004, p. 5)
 - "Moreover, in order to continue to store the memory of the set value VM, during the off time of the key switch, a backup power supply can be provided only to RAM." (Ex. 1004, p. 7)
 - "In this way, by having the set value VM non-volatile to the off operation of the key switch, a temporary stop when the speed is under control occurs, which is advantageous in the case of resuming the speed control at the same target speed again afterwards." (Ex. 1004, p. 7)

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