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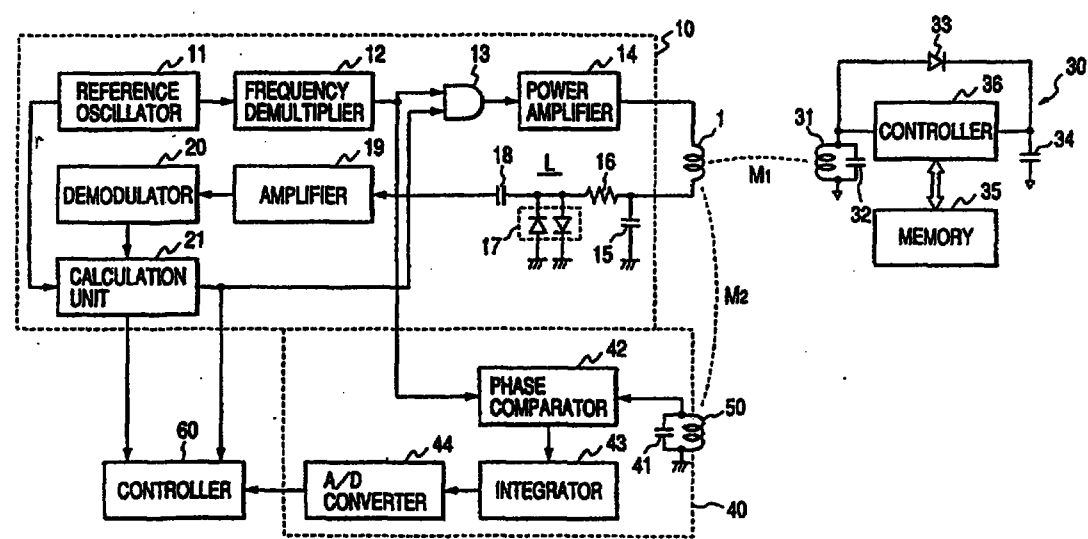
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(71) Applicants (for all designated States except US): KABUSHIKI KAISHA KENWOOD [JP/JP]; 14-6, Dougenzaka 1-chome, Shibuya-ku, Tokyo 150-0043 (JP). KENWOOD ID CORPORATION [JP/JP]; No.37 Fuji Building, 18-3, Dougenzaka 1-chome, Shibuya-ku, Tokyo 150-0043 (JP).			
(72) Inventors; and (75) Inventors/Applicants (for US only): MIYAMOTO, Yukihiko [JP/JP]; 2-6-11, Minamino, Tama-shi, Tokyo 206-0032 (JP). MORIMOTO, Yoshinori [JP/JP]; 1-3-402, Satuki-cyo, Ebina-shi, Kanagawa 243-0421 (JP).			
(74) Agents: OKABE, Masao et al.; No. 602 Fuji Building, 2-3, Marunouchi 3-chome, Chiyoda-ku, Tokyo 100-0005 (JP).			

(54) Title: **VEHICLE DETECTION SYSTEM WITH TRANSPONDER**



(57) Abstract

A transponder (30) is selectively mounted on a vehicle. The transponder (30) receives its operation energy through magnetic coupling with the loop coil (1) when the vehicle comes over the loop coil, and transmits predetermined information specific to the vehicle to the vehicle detection circuit (10). The vehicle detection circuit (10) time divisional performs a supply of the operation energy to the transponder (30) and a reception of the information from the transponder (30), detects a presence of a vehicle in accordance with a change in the output from the loop coil (1), and judges from the information received from the transponder (30) whether the detected vehicle is a predetermined vehicle.