

ABSTRACT

Title of Invention

DRIVING DEVICE AND SPATIAL INFORMATION DETECTING DEVICE USING
5 THE SAME

The driving device includes an applied voltage control unit configured to perform a transfer process of controlling a charge-coupled device to transfer electric charges. The applied voltage control unit is configured to switch, in order from a first end to a
10 second end of a line of transfer electrodes of the charge-coupled device, a voltage applied to the transfer electrode from a control voltage for forming a potential well to a reference voltage for eliminating the potential well. The applied voltage control unit includes a control circuit configured to generate a driving signal based on a clock signal, and a driving circuit configured to apply the control voltage and the reference
15 voltage selectively to the transfer electrode in accordance with the driving signal. The control circuit is configured to delay a second driving signal defined by the driving signal associated with one of the adjacent transfer electrodes from a first driving signal defined by the driving signal associated with the other of the adjacent transfer electrodes so as to adjust a phase difference between the first driving signal
20 and the second driving signal to a value corresponding to predetermined time shorter than a period of the clock signal.

(Figure 1)