

ABSTRACT

PRINTER TIMING CONTROLLER AND METHOD

A print controller apparatus and method thereof for controlling the movement of a printhead assembly including a carriage, printhead, and head pins. First and second moving times of the carriage moving from first and second predetermined distances and a difference between these moving times are determined. The carriage at a third predetermined distance is then determined based on the first and second moving times and the difference of the moving times. A basic timing signal corresponding to the current print mode is generated in accordance with the current moving time of the carriage. A correction value is then computed based on the current moving time of the carriage and from a preceding detected moving time which equals a predetermined time the printhead arrives at the printing paper. The basic timing signal is corrected using the correction value to thereby generate a print timing signal. In accordance with a speed signal being of an inverse proportion to the current moving speed of the carriage and with a preceding computed print timing signal, a drive signal in proportion to the speed signal causes the head pin to make contact with the printing paper for a corresponding amount of time.

FIGURE 14