

ABSTRACT OF THE DISCLOSURE

An automatic platen gap adjusting device for a printer for automatically adjusting a relative gap length between a platen and a recording head, and for checking whether the recording head and a recording sheet are in contact after the adjustment. The device includes a carriage motor for driving a carriage having a recording head, load detection means for detecting a load from a load current of the carriage motor when the carriage is moved in parallel with the platen shaft, initial load storage means for storing an initial load before the recording sheet is loaded, contact judgment means for comparing the load when the recording sheet is loaded and the initial load, and for judging whether the recording head contacts the recording sheet when a difference between these loads exceeds a preset value, a stepper motor for moving the carriage orthogonal to the platen shaft, an encoder for generating a number of pulse signals proportional to an amount of orthogonal movement of the carriage, abutment judgment means for moving the carriage toward the platen from a reference position and for judging the time to abutment, sheet thickness calculation means for calculating the thickness of the recording sheet, and control means that adjusts the platen gap based on the detected sheet thickness.

