

ABSTRACT

HEATER–SENSOR COMPLEX AND IRON TIP CARTRIDGE

A heater-sensor complex includes a heating wire configured to generate heat with power supplied, a lead wire constituted from a metal same as a metal of the heating wire and connected to the proximal end of the heating wire, the lead wire having a bigger diameter than the heating wire, a non-heating wire constituted by a different metal from the metal constituting the heating wire, and a sensor head constituted by a metal different from the metal constituting the heating wire and the metal constituting the non-heating wire. The sensor head have a lower thermal conductivity than the non-heating wire. The distal end of the heating wire and the distal end of the non-heating wire is connected to the sensor head. The heating wire and the non-heating wire electrically conducts at least through the sensor head.

(FIG. 1)