WHAT IS CLAIMED IS:

1. A gas stove system comprising:

an on-off valve communicating with a fuel gas source and controlled to be on or off for a fuel gas to pass or be stopped;

a plurality of burner assemblies, each of which includes a fuel gas control valve, a burner, a lighter and sensor set, and an ignition switch, wherein:

the fuel gas control valve communicates with the on-off valve and is adapted to adjust a fuel gas flow rate flowing through the fuel gas control valve;

the burner communicates with the fuel gas control valve and is adapted to produce a flame;

the lighter and sensor set is provided beside the burner and is controlled to ignite the burner and to detect the flame produced by the burner; and

the ignition switch is triggered to generate an igniting signal for the lighter and sensor set; and

a control device electrically connected to the ignition switches, the lighter and sensor sets, and the on-off valve,

wherein the on-off valve is controlled to be off to avoid the fuel gas passing through the on-off valve to the fuel gas control valve before the control device receives the igniting signal from one of the ignition switches,

wherein after receiving the igniting signal from the one of the ignition switches, the control device controls the lighter and sensor set in association with the ignition switch for ignition and turns on the on-off valve; and when the lighter and sensor set has not detected the flame for a predetermined period of time, the control device turns off the on-off valve to stop the supply of the fuel gas.

2. The gas stove system as claimed in claim 1, wherein each of the burner assemblies

further includes a detector provided in the fuel gas control valve and electrically connected to the control device; the detector detects the on or off of the corresponding fuel gas control valve; and if the lighter and sensor sets detect the flame, but after a period of time, the lighter and sensor set does not detect the flame, and the detector detects the fuel gas control valve to be on, the control device turns off the on-off valve to stop the supply of the fuel gas to the fuel gas control valves.

3. The gas stove system as claimed in claim 1, wherein each of the burner assemblies further includes a detector provided in the fuel gas control valve and electrically connected to the control device; the detector detects the on or off of the fuel gas control valve; and if at least two lighter and sensor sets detect the flame, but after a period of time, one of the at least two lighter and sensor sets does not detect the flame, and the detector detects the fuel gas control valve to be on, the control device turns off the on-off valve to stop the supply of the fuel gas to the fuel gas control valves.

4. The gas stove system as claimed in claim 1, wherein each of the burner assemblies further includes a detector provided in the fuel gas control valve and electrically connected to the control device; the detector detects the on or off of the corresponding fuel gas control valve; and if one of the lighter and sensor sets detects the flame, but the corresponding detector detects the fuel gas control valve to be off, the control device turns off the on-off valve to stop the supply of the fuel gas to the fuel gas control valves.

5. The gas stove system as claimed in claim 1, further including a pressure-control valve assembly having a valve body in which a regulator is provided along with the on-off valve to regulate the pressure of the fuel gas for providing the fuel gas in a steady pressure.

6. A method for controlling a gas stove system, wherein the gas stove system includes an on-off valve, a plurality of fuel gas control valves, a plurality of burners, a plurality of

lighter and sensor sets, a plurality of ignition switches, and a control device, the on-off valve communicates with a fuel gas source, the fuel gas control valves communicate with the on-off valve to adjust a fuel gas flow rate flowing through the fuel gas control valves, each of the burners communicates with a corresponding fuel gas control valve and is provided with a corresponding lighter and sensor set nearby, a corresponding ignition switch to generate a corresponding igniting signal for the corresponding lighter and sensor set, the control device electrically connected to the plurality of ignition switches, the plurality of lighter and sensor sets and the on-off valve, and the method comprises the steps of:

A、controlling, via the control device, one of the lighter and sensor sets to ignite the fuel gas entering the corresponding burner to produce a flame and turning on the on-off valve by triggering the corresponding ignition switch to generate the corresponding igniting signal, wherein the on-off valve is controlled to be off to avoid the fuel gas passing through the on-off valve to the fuel gas control valve before the control device receives the corresponding igniting signal from the corresponding ignition switch;

B、detecting the corresponding burner through the lighter and sensor set to confirm that whether the flame is produced within a predetermined period of time; wherein

if the flame is produced within the predetermined period of time, a step b1 of keeping the on-off valve on is performed; and

if the flame is not produced within the predetermined period of time, a step b2 of turning off the on-off valve is performed to stop the supply of the fuel gas to the fuel gas control valves.

7. The method according to claim 6, further including the following step after step b1: turning off the on-off valve to stop the supply of the fuel gas to the fuel gas control valves

with the proviso that one of the lighter and sensor sets detects the flame, but after a period of time the lighter and sensor set does not detect the flame, and the corresponding fuel gas control valve is on.

8. The method according to claim 6, further including the following step after step b1: turning off the on-off valve to stop the supply of the fuel gas to the fuel gas control valves with the proviso that at least two lighter and sensor sets detect the flame, but after a period of time one of the at least two lighter, and sensor sets does not detect the flame and the corresponding fuel gas control valve is on.

9. The method according to claim 6, further including the following step after the step b1: turning off the on-off valve to stop the supply of the fuel gas to the fuel gas control valves, if one of the lighter and sensor sets detects the flame and the corresponding fuel gas control valve is off.