

An aerosol-generating device is disclosed. The aerosol-generating device of the disclosure includes a cartridge having therein an insertion space formed to be elongated, a body coupled to the cartridge, a plurality of sensors, and a controller. The plurality of sensors includes a capacitance sensor, disposed in the body so as to be adjacent to the insertion space in the cartridge coupled to the body, and a proximity sensor, including a sensor light source configured to radiate light and a photodiode configured to respond to light incident thereon. The controller determines whether a stick is inserted into the insertion space based on a signal received from at least one of the plurality of sensors. When a stick is inserted into the insertion space, the controller determines whether the stick inserted into the insertion space is a used stick based on the level of a signal received from the capacitance sensor.