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(54) **INTERNAL CIRCULATION-TYPE LAMPBLACK PURIFIER**

(57) Disclosed is an internal circulation type lampblack purifier. The internal circulation type lampblack purifier comprises a shell, an air inlet, an air outlet, an air inlet channel, an air outlet channel, a fan device, a mechanical grease separator, a gas purification device and a cooling device, wherein the air inlet and the air outlet are arranged on the shell; the mechanical grease separator is arranged at the air inlet or in the air inlet channel; and the cooling device is arranged at the air outlet and comprises a water supply pipe, water spray guide plates, a water mist baffle plate, a spray pipe and a water receiving tank, the spray pipe communicates with the water supply pipe, spray nozzles are arranged on the spray pipe and face the water spray guide plates, the water receiving tank is located below the water spray guide plates, and the water mist baffle plate is provided with blades at certain gaps. According to the internal circulation type lampblack purifier, the cooling device is arranged, so that the temperature of discharged gas is ef-

fectively reduced, high-temperature water vapor in the discharged gas is eliminated, and the influence of the high-temperature water vapor on the indoor environment is prevented.

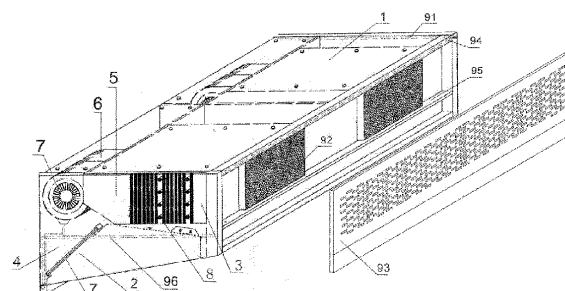


FIG. 1