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(54) Title: FIRE SUPPRESSION SYSTEMS, DEVICES, AND METHODS

(57) Abstract: Systems, devices, and methods for determining whether a fire condition exists based on a status of a cooking appliance, and systems, devices, and methods for controlling an exhaust air flow rate in an exhaust air ventilation system based on the status of the cooking appliance. At least one sensor type generating a predefined signal is used to detect fire condition and appliance cooking state, the predefined signal being applied to a controller which differentiates, responsively the predefined signal, in combination with other sensor signals, at least two cooking states each of the cooking states corresponding to at least two exhaust flow rates which the controller implements in response to the controller's differentiation of the two states and which predefined signal is simultaneously used to differentiate a fire condition, in response to the differentiation of which, the same controller activates a fire suppression mechanism.

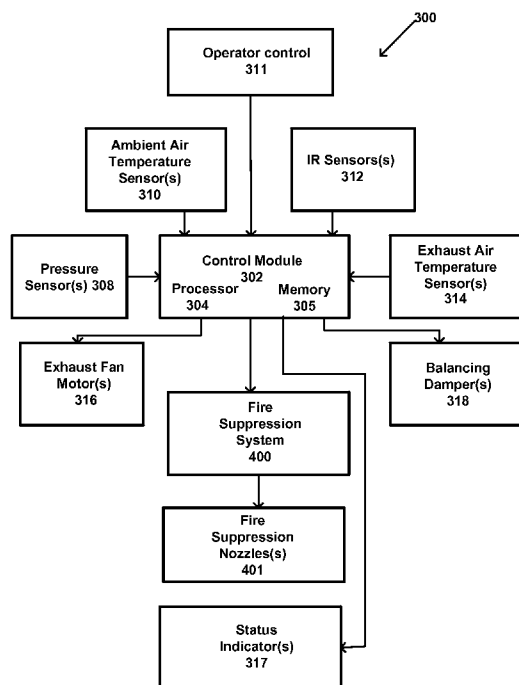


FIG. 2



UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG).

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