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(57) Abstract :

The present disclosure pertains to an aerial system (100) for extinguishing fire including a first set of sensors (102) configured to detect heat parameters of an area of interest , a second set of sensors (104) configured to detect one or more airborne particulates of the area of interest , an image capturing unit (114) configured to capture one or more images of the area of interest , an unmanned manual vehicle (UAV) (106) including a sound wave generator (108), and a cooling assembly (110). The system (100) includes a processing unit (112) configured to actuate the sound wave generator (108) and the cooling assembly (110) to enable extinguishing fire. The processing unit (112) is configured to actuate the image capturing unit (114) and configured to map location of the captured one or more images corresponding to a dataset, where the dataset includes location of the area of interest.

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