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(54) Title of the invention : SYSTEM FOR ACOUSTICALLY EXTINGUISHING A FIRE

(57) Abstract :

The present disclosure pertains to a system 100 for acoustically extinguishing a fire that includes a collimator 102 enclosing a subwoofer 104, where the subwoofer 104 produces a sound wave of or above a threshold amplitude and the collimator 102 aligns and directs the sound wave at the fire to reduce concentration of oxygen present in air surrounding the fire. Additionally, system 100 includes a set of sensors operatively coupled with a control unit 114, that sense fire and emitted sound wave and generates. The control unit 114, operatively coupled to the set of sensors, determines a suitable amplitude for the sound wave and generates an audio signal. The amplifying device 116 operatively coupled to the control unit 114, increases an amplitude of the audio signal to the threshold amplitude, and transmits the audio signal to the subwoofer 104.

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