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(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)D. KONDALA RAO
(33) Name of priority country	:NA	2)PALAKEERTHI BALAJI
(86) International Application No	:	3)MEKA AJAY SAI KRISHNA
Filing Date	:01/01/1900	4)SHAIK SAMEER
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(57) Abstract :

A fire fighting robot capable of autonomous detection and suppression of fires in hazardous environments. The robot integrates thermal sensors, smoke detectors, environmental sensors, and cameras with a mobile chassis, control unit, and extinguishing module. The system enables safe and efficient fire fighting operations, reducing the risk to human firefighters while providing real-time monitoring and remote operation capabilities.

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