

ALLOCATION OF FLUCTUATIONS OF TEMPERATURE FOR DETECTION OF A FIRE

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Last years are characterized by annual increase of quantity of fires, and, as a consequence, increase of number of the people which have lost on fires, and increase of the size of damage.

It causes to raise the requirements to automatic means of detection of a fire, which are one of effective ways of prevention of a loss of property.

Any fire is accompanied by allocation of heat. Selected by the center of a fire is warmly is characterized in absolute temperature, growth rate of temperature, fluctuation of temperature. And fluctuation of temperature occurs on a background of obligatory growth of temperature.

Now for detection of the center of a fire the devices supervising such parameters as absolute temperature and growth rate of temperature are most widely used.

However basic lack of existing devices of detection of a fire is the small sensitivity and later detection.

In these conditions there is a necessity for creation of devices of detection using as an information signal fluctuations of superfluous temperature. For allocation fluctuation of heat on a background of growth of temperature it is offered to use the filter representing thermopile, consisting from two thermocouples formed by four conductors, thus the sizes of two internal conductors are picked up from a condition of observance of the certain communication of factors thermo-EMF and constant time of solder joints so that to form the strip filter with a passband 2-3 Hz.