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(54) Title: INTUMESCENT SHEET USED IN AN ELECTRIC VEHICLE BATTERY FOR THERMAL RUNAWAY MANAGE-
MENT

(57) Abstract: An intumescent sheet to be used in an Electric Vehicle Battery for thermal runaway management, wherein out of 100 weight percentage (wt%) of the intumescent sheet, the intumescent sheet comprises: 5 to 20 wt% of non-woven fiber mat; 60 to 95 wt % of an alkali- silicate based binder; and 0.5 to 10 wt% of microporous and/or mesoporous and/or nanoporous additive, wherein the non-woven fiber mat is infused with the alkali-silicate based binder by impregnation of the non-woven fiber mat with an alkali-silicate based solution.

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