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(54) Title: SYNERGISTIC FLAME RETARDANT COMPOSITIONS AND USES THEREOF IN POLYMER COMPOSITES

(57) Abstract: Flame retardant compositions containing an inorganic flame retardant, such as aluminum trihydrate or magnesium hydroxide, and a flame retardant synergist containing hydrotalcite and clay at a weight ratio of hydrotalcite:clay ranging from 1 : 1 to 100: 1, are disclosed. These flame retardant compositions can be used to produce polymer formulations with a unique balance of flame retardant, mechanical, and rheological properties.

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