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Batdorf

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(54) **FLAME RETARDANT COMPOSITION**

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(58) **Field of Search** 524/188, 548, 524/516, 808, 437, 405, 425; 428/391, 396

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(57) **ABSTRACT**

The invention relates to a water-based flame-retardant composition comprising at least one polyvinylpyrrolidone polymer, at least one silane coupling agent and at least one inorganic compound. The flame-retardant composition has low organic content and low toxicity. The flame-retardant composition may further comprise at least one polymeric emulsion and can be used as a coating or an adhesive. The invention also provides a flame-retardant article comprising a substrate and the flame-retardant composition disposed on a surface of the substrate.

29 Claims, No Drawings