

Title (en)
ENVIRONMENTALLY-CLEAN WATER-BASED FIRE INHIBITING AND EXTINGUISHING COMPOSITIONS, AND METHODS OF AND APPARATUS FOR APPLYING THE SAME

Title (de)
UMWELTFREUNDLICHE, WASSERBASIERTE, FEUERHEMMENDE UND FEUERLÖSCHENDE ZUSAMMENSETZUNGEN SOWIE VERFAHREN UND VORRICHTUNG ZU IHRER ANWENDUNG

Title (fr)
COMPOSITIONS IGNIFUGEANTES ET ÉTEIGNANT LES INCENDIES À BASE D'EAU ET PROPRES POUR L'ENVIRONNEMENT, ET PROCÉDÉS ET APPAREIL PERMETTANT DE LES APPLIQUER

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Application
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- US 2022015004 W 20220202

Abstract (en)
[origin: WO2022169918A2] Environmentally-clean fire inhibiting and extinguishing dry powder compositions and products for sorbing flammable liquids while inhibiting ignition and extinguishing fire involving flammable hydrocarbon liquids such as, oils, fuels and non-polar solvents such as ketones and alcohols. The dry powder chemical compositions are made by mixing, blending and milling to suitable powder particle sizes, the following components: a fire extinguishing agent in the form of at least one alkali metal salt of a nonpolymeric saturated carboxylic acid; a powder fluidizing agent to help provide the dry powder composition with excellent fluid flow characteristics; and an oleophilic/hydrophobic composition for absorbing liquid hydrocarbons, while repelling water. A surfactant may be added to promote the formation of anhydrous semi-crystalline metal mineral salt film onto the surface of flammable hydrocarbon liquids involved in fire outbreaks to be extinguished and preferably absorbed by the dry powder chemical compositions.

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