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(54) Title: PYROTECHNICAL AEROSOL-FORMING FIRE-EXTINGUISHING COMPOSITE AND A METHOD OF ITS PRODUCTION

(57) Abstract: This invention relates to the field of fire-fighting equipment, specifically to means of fire fighting by a fire-extinguishing aerosol that is formed during burning of pyrotechnical composite and a method of its production. The invention allows to prepare pyrotechnical, aerosol-forming fire-extinguishing composite with good deformation strength characteristics, low fire-extinguishing concentration and regulate burning velocity. The pyrotechnical aerosol-forming fire-extinguishing composite contains an oxidizer, a production process additive and burning binder formed by thermoplastic formaldehyde and phenol polycondensate, plasticized by dicarboxylic acid ester and reinforced by polytetrafluoroethylene. The method of producing the composite consists of mixing of formaldehyde and phenol polycondensate suspension in an organic solvent and polytetrafluoroethylene dispersion in dicarboxylic acid ester, mixing the resulting composition with an oxidizer and a production process additive with subsequent thermomechanical effect. The invention can be used for fire-extinguishing in different structures and devices without harmful effect on human body and living organisms, nature.

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