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(54) Title: SOLUTION FOR IMPREGNATION OF MATERIALS SHIELDING LOW-FREQUENCY ELECTRIC FIELD AND THE SHIELDING MATERIAL

(57) Abstract: Solution for impregnation of materials shielding low- and radio-frequency electric field consists of an aqueous solution of hydrated salt and/or salt mixtures with hydration abilities, i.e. salts with sulphate²⁻, phosphate³⁻, carbonate²⁻, Cl⁻ anions and Mg²⁺, Ca²⁺, Cu²⁺, Na⁺, K⁺ cations with hydration abilities. Shielding material has a matrix that can easily soak up the aqueous solution of the hydrate and it is soaked up with the solution as described above. Matrix is provided with pores and/or apertures and/or capillarity and passed through a bath containing impregnating solution (at room temperature), subsequently is pressed in a mangle-type engine, dried at 60 to 100 °C (during 2 to 15 min on 5 m distance) and wound on a roller and the fabric is being fed at a rate of 0.5 to 2 m/min.