

Title (en)

METHOD FOR COATING THE INNER SURFACES OF THE TUBE-LIKE SLEEVE OF A LIQUID LIGHT GUIDE

Title (de)

VERFAHREN ZUM BESCHICHTEN DER INNEREN OBERFLÄCHE DES MANTELSCHLAUCHES EINES FLÜSSIGKEITSLICHTLEITERS

Title (fr)

PROCEDE D'APPLICATION DE REVETEMENT DE LA SURFACE INTERNE D'UN MANCHON D'UNE TUBE D'UN CONDUCTEUR OPTIQUE LIQUIDE

Publication

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Application

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Abstract (en)

[origin: DE19803488A1] The invention relates to a method for producing surfaces on substrates made of polymeric hydrocarbons, especially made of polyethylene or polypropylene, which are at least partially fluorinated by pretreating them with fluorine gas. The polymeric hydrocarbons are subsequently coated with an amorphous perfluoropolymer dissolved in fluorinated liquids by means of dipcoating. After tempering, a chemically inert layer results which adheres well and which protects the substrate against aggressive chemical solvents. According to the same method, superficial partially fluorinated tubing made of polyethylene can be coated inside with a thin layer of an amorphous perfluoropolymer and said tubing can then be used as sheathing tubing for fluid light guides.

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