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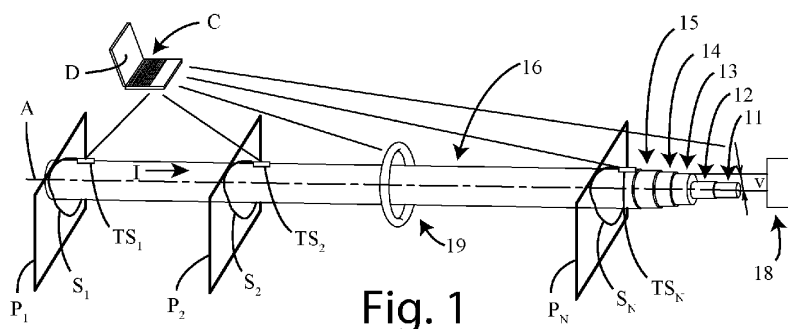
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(54) **Title:** METHOD FOR CALCULATING THE ELECTRIC FIELD INSIDE A DIELECTRIC MATERIAL LAYER OF A HIGH VOLTAGE ELECTRIC CABLE FOR DIRECT ELECTRIC CURRENT, AND SYSTEM THEREOF



**Fig. 1**

(57) **Abstract:** The present invention relates to a method for calculating the electric field inside a dielectric material layer (13) of a high voltage electric cable (1) for direct electric current. Said method is designed to numerically calculate an electric field distribution referred to said dielectric material layer (13), substantially in real time and by solving differential equations expressed in discrete form. The present invention also relates to a system for calculating the electric field inside a dielectric material layer (13) of a high voltage electric cable (1) for direct electric current.