

Title (en)

METHOD FOR DETECTING THE LIMIT STATE OF A MATERIAL, AND DEVICE THEREFOR

Title (de)

VERFAHREN ZUR ERFASSUNG DES GRENZSTANDES EINES GUTES UND VORRICHTUNG HIERZU

Title (fr)

PROCEDE DE DETECTION DE L'ETAT LIMITE D'UNE MATIERE ET DISPOSITIF ASSOCIE

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Application

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Abstract (en)

[origin: WO0227349A2] The invention relates to a method and device for detecting the limit state of a material having a given dielectric constant. To this end, the invention uses a holding device, inside of which two electrically conductive rods are arranged. When a limit state is attained, said rods are immersed into the material to be monitored and are connected to an electric circuit. Said circuit generates high-frequency transmit pulses, which are fed to the rods via the line according to the principle of time-domain reflectometry. The signals reflected into the air by the boundary layer of the material are evaluated on the basis of their waveform.

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