

Title (en)
METHODS AND APPARATUS FOR MEASURING TECHNICAL PARAMETERS OF EQUIPMENT, TOOLS AND COMPONENTS VIA CONFORMAL ELECTRONICS

Title (de)
VERFAHREN UND VORRICHTUNG ZUR MESSUNG DER TECHNISCHEN PARAMETER VON GERÄTEN, WERKZEUGEN ODER KOMPONENTEN DURCH KONFORME ELEKTRONIK

Title (fr)
PROCÉDÉS ET APPAREILS POUR LA MESURE DE PARAMÈTRES TECHNIQUES D'ÉQUIPEMENTS, D'OUTILS ET DE COMPOSANTS VIA UNE FEUILLE ÉLECTRONIQUE ADAPTABLE

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Application
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Abstract (en)
[origin: WO2011127331A2] A flexible and/or stretchable "test data sheet" is provided for recording technical parameters associated with various industrial equipment. The test data sheet includes a flexible and/or stretchable substrate, a microprocessor disposed on the substrate, a memory disposed on the substrate, a power source disposed on the substrate, and one or more sensors of various types disposed on the substrate (e.g., temperature sensors, photodiodes/imaging sensors, impact/force sensors, accelerometers, etc.). The test data sheet optionally may include one or more ports or communication interfaces to facilitate wired or wireless communication to/from the data sheet. The test data sheet is coupled (e.g., applied to) an arbitrarily-shaped surface associated with a piece of industrial equipment, a tool, a pipe, etc., and the test data sheet conforms to as to facilitate intimate proximity to the surface. In this manner, the test data sheet may be in the form of an electronic sticker or decal. The elastic nature of the test data sheet permits it to accommodate vibrations, stretching, change of shape, etc. Of the surface itself, and harsh conditions associated with same, while nonetheless maintaining the data sheet's electronic functionality.

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