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(12) **EX PARTE REEXAMINATION CERTIFICATE** (9917th)

United States Patent

McAleer et al.

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(54) **DISPOSABLE GLUCOSE TEST STRIPS, AND METHODS AND COMPOSITIONS FOR MAKING SAME**

(58) **Field of Classification Search**
None
See application file for complete search history.

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(56) **References Cited**

To view the complete listing of prior art documents cited during the proceeding for Reexamination Control Number 90/012,523, please refer to the USPTO's public Patent Application Information Retrieval (PAIR) system under the Display References tab.

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(57) **ABSTRACT**

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An improved disposable glucose test strip for use in a test meter of the type which receives a disposable test strip and a sample of blood from a patient and performs an electrochemical analysis is made using a working formulation containing a filler, an enzyme effective to oxidize glucose, e.g., glucose oxidase, and a mediator effective to transfer electrons from the enzyme. The working formulation is printed over a conductive carbon base layer to form a working electrode. The filler, for example a silica filler, is selected to have a balance of hydrophobicity and hydrophilicity such that one drying it forms a two-dimensional network on the surface of the conductive base layer. The response of this test strip is essentially temperature independent over relevant temperature ranges and is substantially insensitive to the hematocrit of the patient.

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(52) **U.S. Cl.**
USPC **204/403.05**; 204/403.11; 204/403.15;
204/415; 204/418; 435/14; 435/287.1; 435/289.1;
435/4; 435/817; 600/34

