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(54) **SHADE MATCHING AND LOCALIZED LABORATORY AESTHETICS FOR RESTORATIVE DENTISTRY**

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G01J 3/508; G01J 3/45; G09B 19/0023;  
G16H 40/20; G16H 50/70; G16H 50/20;  
G06Q 10/087

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See application file for complete search history.

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(56) **References Cited**

(\*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 331 days.

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(57) **ABSTRACT**

Embodiments of the present disclosure create an “exchange” where dentists who invest in on-site restoration technologies can share their restoration design, restoration supplies, characterization knowledge, and idle milling time with local dentists. Suppliers can further offer quality control by double checking designs and selections. The platform of shade measurements, block selections, and characterization recommendations further serves as a resource to the dental community at large for improving shade matching in dentistry restorations.

(58) **Field of Classification Search**  
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**16 Claims, 23 Drawing Sheets**

