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Marlin**(10) Patent No.: US 9,364,299 B2****(45) Date of Patent: Jun. 14, 2016****(34) UNIVERSAL ALIGNING ADAPTOR SYSTEM AND METHODS****(71) Applicant: Gerald M. Marlin, Potomac, MD (US)****(72) Inventor: Gerald M. Marlin, Potomac, MD (US)****(*) Notice:** Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.**(21) Appl. No.: 14/088,286****(22) Filed: Nov. 26, 2013****(65) Prior Publication Data**

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A61B 6/14 (2006.01)**(52) U.S. Cl.**CPC **A61C 8/006** (2013.01); **A61B 6/032** (2013.01); **A61B 6/145** (2013.01); **A61B 6/005** (2013.01); **A61C 8/009** (2013.01); **A61C 8/008** (2013.01); **A61C 8/009** (2013.01); **A61C 8/0053** (2013.01); **A61C 8/0068** (2013.01); **A61C 8/0089** (2013.01); **A61C 9/004** (2013.01); **A61C 9/0006** (2013.01); **A61C 13/0001** (2013.01)**(58) Field of Classification Search**

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See application file for complete search history.

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A system for dental implant restoration is provided. It includes universal aligning adaptors and prosthetic components having co-posable indices, which together form a transitional, integrating system which aligns, synchronizes, and references the prosthetic components about an implant's central axis of rotation. Rotation of an adaptor about a prosthetic component, with its reference point becoming aligned to a predetermined reference point on the prosthetic component, followed by the rotation of the adaptor/prosthetic component assembly about the implant, situates the prosthetic component in a predetermined position such that all other prosthetic components become synchronized to the adaptor's reference point. The prosthetic component is mechanical for clinical or lab bench use, or is virtual for restoration design in a software program, prior to milling prosthetic abutments or devices. Abutments, healing caps and screw access holes are adjusted to preferred positions and synchronized with minimal deviation from the ideal direction.

21 Claims, 55 Drawing Sheets