

U.S. DENTAL PATENTS

ISSUED IN Q2 2026

Patent #	Description	Listed Assignee
12,593,910	Method of manufacturing a mouthpiece toothbrush and mouthpiece toothbrush	Ivoclar Vivadent AG
12,593,969	3D scanner system for providing feedback	3Shape A/S
12,594,103	Modular bone screw for surgical fixation to bone	Zadeh, Homayoun H.
12,594,143	Method for tracking, predicting, and proactively correcting malocclusion and related issues	Align Technology, Inc.
12,594,144	Method of determining an orthodontic treatment	Dental Monitoring
12,594,145	Orthodontic appliance with orthopedic function	Tns Co., Ltd.
12,594,146	Upper expansion orthodontic retainer	King Saud University, Saudi Arabia
12,594,147	Curable composition for use in a high temperature lithography-based photopolymerization process and method of producing crosslinked polymers therefrom	Align Technology, Inc.
12,594,148	Aid apparatus for positioning an orthodontic bracket in a center of a tooth	Diamant, Cerna
12,594,149	Orthodontic tube system	Fulks, Clayton M.
12,594,150	Clip for coupling to scan body for accurate intraoral scanning	Dentca, Inc.
12,594,151	Processing CT scan of dental impression	James R. Glidewell Dental Ceramics, Inc.
12,594,152	Dental flossing device	Reuseus Limited
12,599,305	3D cameras or sensors inputting to multi-modal generative artificial intelligence models trained on images or videos	Omni Medsci, Inc.
12,599,312	Method for acquiring a dental object	Dentsply Sirona Inc.
12,599,459	Device comprising handpiece connector having filter coupled thereto	Doulostec.Co.,Ltd
12,599,460	Device for placement in interdental resin fillings	Lee, Patrick Hammill
12,599,461	Impression tray	Al Mstreh, Rafat
12,599,462	Device for making, duplicating and fixing dental models in articulator	Trimag System, S.L.
12,599,463	Color management process for customized dental restorations	Solventum Intellectual Properties Company
12,599,464	Production of dental floss from wood fibers	Bahcesehir Universitesi
12,599,465	Tooth root canal irrigation assembly for cleaning tooth root canals	Köhler, Dennis Manuel
12,599,466	Ultrasonic dental instruments, insert assemblies, and inserts with improved performance durability	Paschke Ultrasonix LLC
12,599,467	Mandibular opening and advancement measurement and positioning device	3D Unicon Innova, S.L.
12,599,529	Foot controller for dental unit chair	Osstemimplant Co., Ltd.
12,599,740	Oral appliance for use with CPAP headgear	R.I.P., LLC
12,603,181	System and method for providing dental services to a patient	Johnson, Andrew



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RE050,859	Temporary dental prosthesis for use in developing final dental prosthesis	Biomet 3I, LLC
12,605,228	Dental handpiece	J. Morita Mfg. Corp., Japan
12,605,229	Dental apparatus including a prop and a rubber dam and a method of using the same	King Saud University
12,605,230	Method and terminal device for managing teeth using oral image	Smartooth Co., Ltd., Korea, Republic of
12,605,231	Method and device for processing three-dimensional oral cavity model and computer-readable recording medium	Medit Corp., Korea, Republic of
12,605,232	Method for providing dental abutment	Osstemimplant Co., Ltd., Korea, Republic of
12,605,233	Zygomatic dental implant set	Implacil Osstem—Material Odontológico S.A.
12,605,234	Surgical incision device for dental implant placement	Kaylakov, Boris
12,605,235	Method for analyzing an image of a dental arch	Dental Monitoring
12,605,236	Method of producing a dental restoration	Ivoclar Vivadent AG
12,605,237	Model teeth table, dental model, and articulator	Nissin Dental Products Inc., Japan Kilgore International, Inc., Michigan
12,605,238	Oral irrigator with back flow prevention	Koninklijke Philips N.V., Netherlands
12,605,561	Intra-oral light therapy apparatuses and methods for their use	Biolux Group SA
12,605,776	Milling tool for seating a screw in a dental structure	Paragon Tools, S.L.
12,605,889	Modular build platforms for additive manufacturing	Cubicure GmbH Align Technology, Inc.
12,611,087	Data processing device, scanner, and method for operating same	Medit Corp.
12,611,096	Minimalistic intraoral scanning system	Align Technology, Inc.
12,611,269	Robotic dental system and method of preparing for a robotic dental procedure	Perceptive Technologies, Inc.
12,611,286	Method and apparatus for dental crown restorations using prefabricated sleeve-crown pairs	Rsl Dental Technologies LLC
12,611,287	Techniques for determining patient teeth positions for orthodontics	Lightforce Orthodontics, Inc.
12,611,288	Dental implant, component for dental applications, implant system for dental applications, method for forming a protective layer on the surface of an implantable or implant component, implantable or implant component having a protective layer, and use of a protective layer	Nobel Biocare Services AG
12,611,289	Method and system for scanning multiple dental objects	3Shape A/S
12,611,290	Method for forming and polishing a composite denture	Imam Abdulrahman Bin Faisal University
12,611,291	Biosensor performance indicator systems for orthodontic appliances	Align Technology, Inc.
12,611,292	Tooth whitening apparatus	Colgate-Palmolive Company
12,611,550	Intra-oral light therapy apparatuses and methods for their use	Biolux Research Holdings, Inc. Biolux Group SA
12,612,770	Water supply system, control method, electronic device, and storage medium	Shanghai Kohler Electronics, Ltd.
12,616,428	Automated method of manufacturing oral appliances	Prosomnus Sleep Technologies, Inc.
12,616,547	Protective shield system	Sanah I Products, LLC
12,616,554	Customized temporary veneers and methods of providing the same	Trion Concepts, Inc.



Patent #	Description	Listed Assignee
12,616,555	Dental crown and method of use	Prasad, Arun Fishell, Ron Turley, Steven Verity, David Agarwal, Gaurav
12,616,556	Methods for direct fabrication of appliances for palate expansion	Align Technology, Inc.
12,616,557	Systems and methods for determining an edge of orthodontic appliances	Oxilio Ltd
12,616,558	Direct-snap dental abutment systems	Bell, Patrick C. Mathews, Michael A. Arendt, Thomas J. Malin, Leo J.
12,616,559	Object detection and instance segmentation of 3D point clouds based on deep learning	Promaton Holding B.V.
12,616,560	Dental machining system for generating process parameters of the machining	Dentsply Sirona Inc.
12,616,561	Vibration isolator for oral irrigators	Water Pik, Inc.
12,616,873	Mandibular advancement device	Manditrac, LLC
12,617,711	Pre-sintered ceramic block for dental restoration, preparation method therefor and use thereof	Shenzhen Upcera Dental Technology Co., Ltd.
12,617,727	Method for producing zirconia sintered body	Kuraray Noritake Dental Inc.
12,617,887	Resin composition for stereolithography	Kuraray Noritake Dental Inc.
12,619,059	Image enhancement system and implementation method therefor	Zumax Medical Co., Ltd.
12,622,508	Oral care system and method for promoting oral hygiene	Colgate-Palmolive Company
12,622,768	Orthodontic appliance for correcting misalignment of teeth	World Class Technology Corporation
12,622,769	Dental implant container and an implant	Universität Für Bodenkultur Wien
12,622,770	Suction handpiece for a dental treatment unit	Dürr Dental SE
12,622,771	Universal base for electric toothbrush	Braun GmbH
12,622,772	Mouthpiece for a dental cleaning device, method of brushing teeth, and dental cleaning device comprising the mouthpiece	Dental Robotics Group B.V.
12,622,773	Detecting and monitoring development of a dental condition	3Shape A/S
12,622,774	Method of whitening teeth	Colgate-Palmolive Company
12,623,090	Systems, devices and methods for the treatment of oral and pharyngeal disorders	Bilston, Lynne Burke, Peter
12,623,272	Apparatus and method for customized shaping of orthodontic archwires and other medical devices	Dentsply Sirona Inc.
12,623,396	Hand tool for separating a deep-drawn jaw-spanning dental apparatus of thermoform film	Dentsply Sirona Inc.
12,623,954	Lithium silicate glass ceramic with easy machinability	Ivoclar Vivadent AG
12,624,219	Photocurable resin composition for surgical guide and surgical guide made therefrom and method for manufacturing same	Osstemimplant Co., Ltd.
12,626,822	Deep learning for automated smile design	Solventum Intellectual Properties Company
12,627,891	Illuminating device	Qisda Corporation
12,629,227	Carrier element for supporting at least one medical or dental instrument in a cleaning or care device	W&H Dentalwerk Buermoes GmbH, Austria
12,629,230	Hole filling for 3D dental models	Align Technology, Inc., California
12,629,231	Method and system for designing customized palate expanders	Partners Dental Studio LLC
12,629,232	Biomechanical training device for the temporomandibular joint	Forstgarten International Holding GmbH



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12,629,233	Aligner finishing line trimming and aligners having trimmed finishing lines	Tinnisense Solutions, LLC
12,629,234	System and method for monitoring optimal dental implants coupleable with an optimized implant site	Emanuelli, Silvio Franco
12,629,235	Modifiable length dental implant screwdriver	King Saud University
12,629,236	Vacuum film for scanning an oral cavity	Ivoclar Vivadent AG, Liechtenstein
12,629,237	Floss accessory and method	Chen, Lin-Hao
12,629,238	Brush head of electric toothbrush and electric toothbrush	Zhuhai Weisen Trading Co., Ltd.
12,629,239	Dentifrice dispenser, assembly of such a dispenser and J-/U-shaped mouthpiece for cleaning teeth, system comprising a dental cleaner and storage station with such a dispenser, use of such a dispenser, and method making use of such a dispenser	Dental Robotics Group B.V., Netherlands
12,629,240	Oral cleansing device with magnetic fluid connector	Water Pik, Inc., Colorado
12,630,734	Weak covalent crosslinks in thermoset materials for increased toughness	Align Technology, Inc.
12,632,033	System and method for forming dental appliances	Sprintray, Inc., California
12,632,958	Device and method for suggesting occlusal plane	Industry-Academic Cooperation Foundation Yonsei University, Korea, Republic of
12,632,959	Image processing apparatus, method for controlling same, and storage medium	Canon Kabushiki Kaisha, Japan
12,635,788	Oral-care implement having pressure-control system	Braun GmbH
12,635,868	Intraoral scanner calibration device	Osstemimplant Co., Ltd.
12,635,882	Calibration cradle for three-dimensional scanner and control method for same	Medit Corp.
12,635,934	Systems, devices and methods related to periodontal measurements	Kwon, Paul Kwon, Stephanie
12,635,966	Manufacturing of dental implants based on digital scan data alignment	Institut Straumann AG
12,636,019	Bone drill bit and handpiece for using the bone drill bit	Abboud, Marcus
12,636,122	Method of layering composite tooth restoration according to a concept of temperature balance and devices for its implementation	Melikyan, Melikset Litvinovich Melikyan, Karine Meliksetovna
12,636,123	Dental mouthpiece	Solmetex, LLC
12,636,124	Method to visualize and manufacture aligner by modifying tooth position	Align Technology, Inc.
12,636,125	Methods and apparatuses for preparing a virtual three-dimensional model of a subject's dentition	Align Technology, Inc.
12,636,126	Systems and methods for controlling a cutting head of a cutting device	Oxilio Ltd
12,636,127	Mandibular or maxillary devices having a polymeric nanocomposite actively controlled for hard palate or mandibular growth	Sleep Solutions of Texas, LLC
12,636,128	Orthodontic brackets	Fab DT Limited
12,636,129	Anatomical dental implant arranged to be implanted in a naturally occurring cavity of the jawbone	Common Sense Engineering and Consult
12,636,130	Tools and automation for tooth setup	Voyager Dental, Inc.
12,636,131	Method and system for performing dental scan	Get-Grin Inc.
12,636,132	Scanning method and system of scanning rod, and storage medium	Shining 3D Tech Co., Ltd.
12,636,133	Method for providing information for dental treatment and electronic device performing same	Medit Corp.



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12,636,134	Automated creation of tooth restoration dental appliances	Solvantum Intellectual Properties Company
12,636,135	Oral care device and method	Koninklijke Philips N.V.
12,636,136	Oral care implement and refill head thereof	Colgate-Palmolive Company
12,636,137	Toothbrush with tapping motion	Koninklijke Philips N.V.
12,636,138	Dental implant-retained device and methods of fabricating thereof	Imam Abdulrahman Bin Faisal University
12,636,234	Method of producing polyurethane-based composite material, polyurethane-based composite material, and material for dental cutting work	Tokuyama Dental Corporation
12,636,315	Method for treating periodontal disease	Szymaitis, Dennis W.
12,636,396	Ozone disinfection system with replaceable water cartridge	Biosure North America LLC
12,636,835	Systems and methods for generating directly manufacturable dental appliances	Align Technology, Inc.
12,637,383	Method of producing glass-ceramic blank, and glass-ceramic blank	GC Corporation
12,638,332	Color measurement with structured light	Ivoclar Vivadent AG
12,638,410	Method for indicating the concentration level of an irrigation solution in the apical zone of a dental root canal	Maillard, Thierry
12,642,434	Calibration cradle for three-dimensional scanner	Medit Corp.
12,642,622	Endodontic driving and operating device	Redentnova GmbH & Co. KG
12,642,623	Automated process for intermediate orthodontic digital setup generation	Solvantum Intellectual Properties Company
12,642,624	Image processing method for designing smile line and device using the same	Medit Corp.
12,642,625	Methods of controlling haze in orthodontic appliances including semi-crystalline polymers	Solvantum Intellectual Properties Company
12,642,626	Palatal expansion appliances and methods of producing and using the same	Align Technology, Inc.
12,642,627	Device and method for treatment of an artificial bone implant with blood	Health Corporation of Galilee Medical Center
12,642,628	Intraoralscanning system with warning indicators	Align Technology, Inc.
12,642,629	Alignment state indicating apparatus and method	Medit Corp.
12,642,630	Method for determining object area from three-dimensional model, and three-dimensional model processing device	Medit Corp.
12,642,631	Dental floss dispenser	Quip NYC Inc.
12,642,632	Intraoral device	Solmetex, LLC
12,642,633	Oral irrigator	Koninklijke Philips N.V.
12,642,634	Suction apparatus and saliva ejector	Tevrizian, Daniel
12,642,635	Ampoule for implant storage having bi-directional humidity maintenance function	Osstem Implant Co., Ltd.
12,642,753	Dental hydraulic cement comprising ultrafine calcium silicate particles having fast hardening and suitable mechanical properties	Septodont Ou Septodont Sas Ou Specialites Septodont
12,642,754	Dissolvable hydrogen peroxide teeth whitening strip or film	Bsolve Limited
12,643,113	Method of determining aperture area and droplet jet device	Seiko Epson Corporation
12,643,286	Method for producing three-dimensional manufactured product	Tokuyama Dental Corporation
12,645,285	Orally actuated control device	Xpnd Technologies, SL
12,646,605	Virtual dental restoration insertion verification	James R. Glidewell Dental Ceramics, Inc.



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12,646,611	Rotary instrument storage, monitoring, and access control system	King Saud University
12,647,010	Cleaning and caring appliance and transducing apparatus thereof	Shanghai Shift Electrics Co., Ltd.
12,648,636	Electric toothbrush capable of automatically squeezing toothpaste	Dongguan Yiting Household Products Technology Co., Ltd.
12,648,699	Estimating a surface texture of a tooth	Align Technology, Inc., California
12,648,832	Bioceramic putty placement instrument	King Saud University
12,648,833	Reconstruction of a virtual computed-tomography volume to track orthodontics treatment evolution	Carestream Dental Technology Topco Limited
12,648,834	Patterned dental positioning appliances	Align Technology, Inc., California
12,648,835	Fixed hybrid dental attachment assembly and methods of use	Zest Ip Holdings, LLC, California
12,648,836	Dental attachment assemblies, angled implant assemblies, and methods of use	Quantum Corporation, California Zest Ip Holdings, LLC, California
12,648,837	Compact intraoral 3D-scanner and a method of optimizing such	3Shape A/S, Denmark
12,648,838	Interdental space detection	Koninklijke Philips N.V., Netherlands
12,648,894	Zirconia sintered body containing needle-shaped metal oxide	Kuraray Noritake Dental Inc., Japan
12,649,067	Oral care device and method	Koninklijke Philips N.V., Netherlands
12,650,263	Sintering furnace	Amann Girrbach AG, Austria
12,651,431	Data processing device and data processing method	Medit Corp., Korea, Republic of
12,651,671	Treatment parameter estimation using orthognathic information	Align Technology, Inc., California
12,653,587	Maxillary expander and protraction device	Facegenics, Inc.
12,653,642	Method for generating a dental image	Dental Monitoring, France
12,653,643	Orthodontic appliances and materials	Smylio Inc., California Welcommerce Funding LLC, New York Western Alliance Bank, California
12,653,644	Implant with high primary stability and accelerated secondary stability	Biomet 3I, LLC, Florida Golub Capital LLC, as Collateral Agent, Illinois
12,653,645	Fixed hybrid dental attachment assembly and methods of use	Zest Ip Holdings, LLC
12,653,646	Dental attachment assemblies, angled implant assemblies, and methods of use	Zest Ip Holdings, LLC, California
12,653,647	Dental implant driver	
12,653,648	Gauge for verification of 3-d images	Dentsply Sirona Inc., Pennsylvania
12,653,649	Generation of a three-dimensional representation of a dental object during scanning with a dental imaging device	3Shape A/S
12,653,650	System to remove from an image unnecessary objects identified by an intraoral scanner	J. Morita Mfg. Corp., Japan
12,653,651	Oral treatment device	Dyson Technology Limited, United Kingdom
12,653,652	Method for acquiring a model of a dental arch	Dental Monitoring, France
12,653,653	Method of producing block for dental prostheses, and method of producing dental prosthesis	GC Corporation, Japan
12,653,654	Electric field generating device for oral care and oral care device including same	Proxihealthcare Inc., Korea, Republic of
12,653,655	Oral irrigator tip	Colgate-Palmolive Company, New York
12,653,656	Oral treatment device and related methods	Colgate-Palmolive Company, New York
12,653,657	Dental bleaching guide plate and preparation method thereof	Sichuan University, China
12,653,676	Personalized medical device and method of its preparation	Juhamed S.R.O., Slovakia Technicka Univerzita V Kosiciach, Slovakia



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12,653,917	Plasma treatment apparatus and method using same	Plasmapp Co., Ltd., Korea, Republic of
12,653,930	Alveolar bone augmentation scaffold system	Novaprint Therapeutics Suzhou Co., Ltd, China
12,657,707	Three-dimensional dental model segmentation quality assessment	Align Technology, Inc., California
12,657,853	Device for processing oral image and method for processing oral image	Medit Corp., Korea, Republic of
12,657,868	Dental treatment data matching method and digital dentistry device therefor	Osstem Implant Co., Ltd., Korea, Republic of
12,658,321	Tooth extraction difficulty diagnosis and complications prediction device and method	Gwangju Institute of Science and Technology, Korea, Republic of
12,661,209	Face shield and face mask protection system	Imam Abdulrahman Bin Faisal University
12,661,210	Orthodontic expander	Leone S.P.A., Italy
12,661,211	Combined flosser and interproximal brush device	Mertus, Fabienne
12,661,212	Electronic flossing device comprising disposable flossing cartridge	Marcella, Mary C.
12,661,213	Multifunctional portable tool and personal care apparatus	Shen Zhen Shi Ti Zi Shu Ju You Xian Gong Si, China
12,661,307	Nursing bottle with dual chamber	Arian, Afshin
12,667,374	Bone anchor with a drilling template connecting to this bone anchor and method for manufacturing the bone anchor and the drilling template	Tita-Link B.V.B.A.
12,667,400	Intermaxillary fixation device and method of using same	Marcus, Jeffrey R
12,667,447	Dental handpiece for drilling and suctioning	Imam Abdulrahman Bin Faisal University
12,667,448	Dental devices and related methods	Sappenfield, Christopher C.
12,667,449	Degradable magnesium tenting device for faster surgeries and improved outcomes in vertical ridge augmentation	University of Pittsburgh-of the Commonwealth System of Higher Education
12,667,450	One-piece dental implant guide pack based on photocuring molding	Joy International Co. Lee, Ping-Cheng Tsai, Chiao-I
12,667,451	Atmospheric pressure plasma jet device	Albert-Ludwigs-Universität Freiburg
12,667,452	Fixed hybrid dental attachment assembly and methods of use	Zest Ip Holdings, LLC
12,668,046	Composite structure dental orthodontic sheet and dental orthodontic device using the same	Dentis Co., Ltd., Korea, Republic of
12,668,547	Ceramic mixture for producing moulded articles, methods for the production thereof, and use thereof	Pritidenta GmbH, Germany
12,670,678	Occlusal vertical dimension reproduction method for manufacturing artificial teeth	Medit Corp.

Disclaimer:

*Data generated by collecting patents issued between April 1st, 2026 and June 30, 2026 having the following Cooperative Patent Classification Codes: A61C; A46B11/00; A46B13/04; A61B1/24; A61B5/0088; A61B1/24; A61B5/0088; A61B6/51; A46B9/04; A61B17/24; A61G15/02; A61G15/14; A61K6/80; A61M5/178; B08B3/12; B33Y80/00; F27B17/025; G06T2207/30036; A46B9/04; A46B15/0032; A46B15/0069; A46B15/0071; A46B2200/1066; A46B2200/1073; A46B2200/108; A47K5/18; A61B5/0088; A61B5/4547; A61G15/08; A61G15/16; A61K6/00; A61L27/3865; A61L2430/12; A61Q11/00; A63B71/085; A63B2071/086; A63B2071/088; C03C2205/06; C03C4/0021; F16C2316/13; F27D5/0043; G01N2800/18; G03C3/003; Y10S75/955; Y10S164/04; Y10S260/99811; Y10S362/804; Y10S366/602; Y10S415/904; Y10S425/011; Y10S522/908; Y10S977/919

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