

【DESCRIPTION】

【Invention Title】

METHOD AND SYSTEM FOR DENTAL PROSTHESIS ORDERING, AND
PLATFORM FOR IMPLEMENTING DIGITAL DENTISTRY

【Technical Field】

[1] The present disclosure relates to a method and system for dental prosthesis ordering. More particularly, the present disclosure relates to a method and system for dental prosthesis ordering used for tooth treatment in dental clinics. Furthermore, the present disclosure relates to a platform for implementing digital dentistry based on the method and system for dental prosthesis ordering.

【Background Art】

- [2]** In the dental treatment process, processed materials are required for the patient's tooth treatment. To this end, dental clinics prepare order information that needs to be processed for each patient's teeth and deliver the order information to dental laboratories or implant companies that manufacture prosthetic materials.
- [3]** Accordingly, dental practitioners should record detailed records for each tooth for ordering tooth prostheses in addition to treatment records for dental treatment.
- [4]** In addition, since the means and methods of ordering tooth prostheses from laboratories or implant companies are not standardized, dental practitioners should order tooth prostheses in consideration of the means and methods of laboratories or implant companies.
- [5]** Furthermore, since the dental treatment process imposes significant costs on patients and the process of manufacturing tooth prostheses also takes a long time, the patients face the inconvenience of having to visit the dentist multiple times during the dental treatment period.

- [6] To address these issues, there is a need for a platform that connects dental clinics and laboratories to integrate and manage various services (e.g., prosthesis ordering services) performed between the dental clinics and the laboratories.

【Disclosure】

【Technical Problem】

- [7] The present disclosure is directed to providing a method and system for dental prosthesis ordering that enables ordering of dental prostheses for tooth treatment based on an interface that ensures user convenience.
- [8] In particular, the present disclosure provides a method and system for dental prosthesis ordering that includes a highly intuitive interface displaying a dental formula (tooth chart) for identifying teeth.
- [9] In addition, the present disclosure is directed to providing a method and system for dental prosthesis ordering that includes an interface for selecting teeth requiring a prosthesis order and setting order details.
- [10] Furthermore, the present disclosure is directed to providing a method and system for dental prosthesis ordering that includes an interface displaying the correlation between prostheses for each tooth.
- [11] Furthermore, the present disclosure is directed to providing a platform for implementing digital dentistry based on the method and system for dental prosthesis ordering described above.

【Technical Solution】

- [12] According to an aspect of the present disclosure, a method for dental prosthesis ordering includes: providing a prosthesis ordering page including dental formula information corresponding to multiple teeth to a user terminal; receiving a user input

specifying at least one of the multiple teeth from the user terminal; displaying, in response to the user input, a graphic object including a tag corresponding to any one of multiple prosthesis types around the dental formula information corresponding to the specific tooth; receiving a prosthesis order request for treatment of the specific tooth from the user terminal while the graphic object including the tag is displayed; and generating, based on receipt of the prosthesis order request, prosthesis manufacturing information by linking the specific tooth, the prosthesis information corresponding to the tag, and patient information.

- [13] The shades of the tag and the graphic object may vary depending on the prosthesis type.
- [14] A shade of the dental formula information corresponding to the specific tooth may be determined to be the same shade as the graphic object.
- [15] The user input may be received from the user terminal based on being applied to an area corresponding to the dental formula information of the specific tooth, and when the user input is received while the graphic object is not displayed around the dental formula information of the specific tooth, the graphic object may be displayed.
- [16] When the user input is received while the graphic object is displayed around a dental formula corresponding to the specific tooth, the graphic object may disappear, and the dental formula information corresponding to the specific tooth may be converted to pontic data.
- [17] The prosthesis ordering page may include a prosthesis selection area for selecting any one of the multiple prosthesis types, and the prosthesis type for treating the specific tooth may be specified based on the user input to the prosthesis selection area.
- [18] When a first tooth and a second tooth adjacent to the first tooth are specified among the multiple teeth, a graphic object corresponding to a splint for connecting the first

tooth and the second tooth may be displayed between first dental formula information corresponding to the first tooth and second dental formula information corresponding to the second tooth.

- [19] The prosthesis ordering page may include summary information for the prosthesis order, and the summary information may include at least one of information on the specific tooth and the prosthesis type for treating the specific tooth.
- [20] According to another aspect of the present disclosure, a system for prosthesis ordering includes: a control unit providing a prosthesis ordering page including dental formula information corresponding to multiple teeth to a user terminal; and a communication unit receiving a user input specifying at least one of the multiple teeth from the user terminal, in which the control unit is configured to display, in response to the user input, a graphic object including a tag corresponding to any one of multiple prosthesis types around the dental formula information corresponding to the specific tooth, receive a prosthesis order request for treatment of the specific tooth from the user terminal while the graphic object including the tag is displayed, and generate, based on receipt of the prosthesis order request, prosthesis manufacturing information by linking the specific tooth, the prosthesis information corresponding to the tag, and patient information.
- [21] According to still another aspect of the present disclosure, a program stored on a computer-readable recording medium, executed by one or more processes in an electronic device, in which the program includes instructions to perform: providing a prosthesis ordering page including dental formula information corresponding to multiple teeth to a user terminal; receiving a user input specifying at least one of the multiple teeth from the user terminal; displaying, in response to the user input, a graphic object including a tag corresponding to any one of multiple prosthesis types around the dental formula information corresponding to the specific tooth; receiving a

prosthesis order request for treatment of the specific tooth from the user terminal while the graphic object including the tag is displayed; and generating, based on receipt of the prosthesis order request, prosthesis manufacturing information by linking the specific tooth, the prosthesis information corresponding to the tag, and patient information.

【Advantageous Effect】

- [22] As described above, according to the method and system for dental prosthesis ordering according to the present disclosure, by providing a prosthesis ordering page including dental formula information corresponding to multiple teeth to a user terminal, it is possible to provide a highly readable interface that displays a dental formula for identifying teeth based on tooth positions.
- [23] Furthermore, the method and system for dental prosthesis ordering according to the present disclosure may receive a user input specifying at least one of the multiple teeth from the user terminal, display, in response to the user input, a graphic object including a tag corresponding to any one of multiple prosthesis types around dental formula information corresponding to a specific tooth, and receive a prosthesis order request for treatment of the specific tooth from the user terminal while the graphic object including the tag is displayed. As a result, according to the present disclosure, it is possible to provide an interface that may perform the ordering of prostheses to be used for the selection of teeth and for the treatment of each tooth easily, intuitively, and conveniently. In addition, according to the method and system for dental prosthesis ordering according to the present disclosure, by displaying the prosthesis applied to each tooth so as to be intuitively recognized, it is possible to enhance the readability of the interface for the technician who manufactures the prostheses.

【Description of Drawings】

- [24] FIG. 1 is a conceptual diagram for describing a system for dental prosthesis ordering according to the present disclosure.
- [25] FIG. 2 is a conceptual diagram for describing a method for dental prosthesis ordering according to the present disclosure.
- [26] FIGS. 3A to 3G are conceptual diagrams for describing the method for dental prosthesis ordering according to the present disclosure.
- [27] FIGS. 4A and 4B are conceptual diagrams for describing a method for selecting prosthesis information and dental formula according to an embodiment of the present disclosure.
- [28] FIG. 5 is a conceptual diagram for describing a method for selecting a dental formula through drag according to the present disclosure.
- [29] FIG. 6 is a conceptual diagram for describing a method for changing and displaying an interface whenever a dental formula is selected in the present disclosure.
- [30] FIG. 7 is a conceptual diagram for describing a splint displayed between dental formulas in the present disclosure.
- [31] FIGS. 8A and 8B are conceptual diagrams for describing a method for generating a plurality of pieces of order information in the present disclosure.
- [32] FIGS. 9A and 9B are conceptual diagrams for describing a method for generating additional information and selecting shade information of prosthesis.

【Mode for Disclosure】

- [33] Hereafter, embodiments disclosed in the present specification will be described in detail with reference to the accompanying drawings and the same or similar components are given the same reference numerals regardless of the reference numbers of figures and are not repeatedly described. In addition, terms “module” and “unit” for components used in the following description are used only to easily make the

disclosure. Therefore, these terms do not have meanings or roles that distinguish from each other in themselves. Further, when it is determined that a detailed description for the related known art in describing embodiments disclosed in the present specification may obscure the gist of the present disclosure, a detailed description thereof will be omitted. Further, it should be understood that the accompanying drawings are provided only in order to allow embodiments disclosed in the present specification to be easily understood, and the spirit of the present disclosure is not limited by the accompanying drawings, but includes all the modifications, equivalents, and substitutions included in the spirit and the scope of the present disclosure.

- [34] Terms including ordinal numbers such as “first”, “second”, etc., may be used to describe various components, but the components are not to be construed as being limited to the terms. The terms are used to distinguish one component from another component.
- [35] It is to be understood that when one element is referred to as being “connected to” or “coupled to” another element, it may be connected directly to or coupled directly to another element or be connected to or coupled to another element, having the other element intervening therebetween. On the other hand, it should be understood that when one element is referred to as being “connected directly to” or “coupled directly to” another element, it may be connected to or coupled to another element without the other element interposed therebetween.
- [36] Singular expressions are intended to include plural expressions unless the context clearly represents otherwise.
- [37] It will be further understood that terms “include”, “have”, or the like used in the present specification specify the presence of features, numerals, steps, operations, components,

parts mentioned in the present specification, or combinations thereof, but do not preclude the presence or addition of one or more other features, numerals, steps, operations, components, parts, or combinations thereof.

[38] FIG. 1 is a conceptual diagram for describing a system for dental prosthesis ordering according to the present disclosure.

[39] Referring to FIG. 1, when receiving an order request for a dental (or tooth) prosthesis required for tooth treatment of a specific patient from a medical staff terminal 10, a system 100 for dental prosthesis ordering according to the present disclosure may generate order information corresponding to the order request. The generated order information may then be transmitted to a server 21 of a dental laboratory 20, thereby requesting the laboratory 20 to manufacture prosthesis such that the prosthesis included in the order information is manufactured.

[40] The term "medical staff" as described herein may be understood as a person working in a medical institution (e.g., dental clinic H). In the present disclosure, for convenience of description, a dentist is used as an example of a medical staff. However, the medical staff is not limited thereto, and any user working in a medical institution to use a dental prosthesis ordering service may correspond to a medical staff according to the present disclosure.

[41] In addition, the "dental laboratory" described herein may refer to a specialized institution that manufactures instruments or devices necessary for a dental treatment process. For example, a technician working in a dental laboratory may perform an operation of manufacturing tooth prostheses, orthodontic devices, etc., necessary for patient's tooth treatment according to a dentist's prescription.

[42] Furthermore, the term "dental (or tooth) prosthesis" described in the present disclosure may vary according to a material (or texture), an attachment scheme, and tooth

treatment purpose, etc. For example, prostheses may be classified into metal, ceramic, resin, plastic, etc., according to the materials used, and materials used for each prosthesis may be selected according to characteristics such as strength, durability, and aesthetics. For another example, prostheses may be classified into at least one of fixed prostheses (e.g., crowns, bridges, implants, etc., which a patient may not remove on his/her own), removable prostheses (e.g., dentures, which a patient may remove and attach on his/her own), and temporary prostheses (e.g., prostheses used while manufacturing permanent prostheses) according to the attachment scheme.

[43] Meanwhile, as illustrated in FIG. 1, the system 100 for dental prosthesis ordering according to the present disclosure may include at least one of a communication unit 110, a storage unit 120, and a control unit 130. The system 100 for dental prosthesis ordering according to the present disclosure may also be referred to as a platform, a digital dentistry platform, or a platform for implementing digital dentistry.

[44] The communication unit 110 may be connected to a server, a device, or the like via a wireless or wired network, and configured to receive or transmit overall data and information required for the system 100 for providing dental prosthesis ordering.

[45] Specifically, the communication unit 110 may be communicatively connected to a medical staff terminal 10 and receive requests related to the dental prosthesis ordering service from the medical staff terminal 10. For example, the communication unit 110 may receive an order request from the medical staff terminal 10 for ordering a prosthesis used for a patient's tooth treatment.

[46] Here, the medical staff terminal 10 may include at least one of a mobile phone, a smart phone, a notebook computer, a laptop computer, a slate PC, a tablet PC, an ultrabook, a desktop computer, a digital broadcasting terminal, a personal digital assistant (PDA), a portable multimedia player (PMP), a navigation device, or a wearable device (e.g., a

smartwatch, smart glass, or a head-mounted display (HMD)).

- [47] Further, although not illustrated, the medical staff terminal 10 may include at least one of a display unit for outputting information and an input unit for receiving information from a medical staff.
- [48] The display unit and the input unit of the medical staff terminal 10 may exist independently of each other, but may also be present integrally, as in a touch screen. When the display unit and the input unit are integrated, as in a touch screen, the input unit may be understood as a detection unit that detects input (e.g., touch input, scroll input, etc.) through the display unit, and may be regarded as one component of the display unit.
- [49] Hereinafter, without distinguishing whether the display unit and the input unit of the medical staff terminal 10 are present independently or present integrally, a component that performs a function for outputting information will be referred to as the display unit, and a component that performs a function for receiving information will be referred to as the input unit.
- [50] Furthermore, the communication unit 110 may support various communication schemes depending on communication standards of a communicating device.
- [51] For example, the communication unit 110 may be configured to communicate with at least one of the medical staff terminal 10, a server (laboratory server 21 or cloud server), and a device using at least one of wireless LAN (WLAN), wireless-fidelity (Wi-Fi), wireless fidelity (Wi-Fi) direct, digital living network alliance (DLAN), wireless broadband (WiBro), world interoperability for microwave access (WiMAX), high speed downlink packet access (HSDPA), high speed uplink packet access (HSUPA), long term evolution (LTE), long term evolution-advanced (LTE-A), 5th generation (5G) mobile telecommunication, Bluetooth (BluetoothTM), radio frequency

identification (RFID), infrared data association (IrDA), ultra-wideband (UWB), ZigBee, near field communication (NFC), Wi-Fi direct, and wireless universal serial bus (wireless USB) technologies.

[52] Meanwhile, the storage unit 120 may also be referred to as a database (DB) and may be configured to store various pieces of information related to the present disclosure. In the present disclosure, the storage unit 120 may be provided in the system 100 for dental prosthesis ordering itself. In addition, at least a portion of the storage unit 120 may be configured as a cloud server (or cloud storage). That is, the storage unit 120 is sufficient as long as it is a space where information necessary for the system 100 for dental prosthesis ordering according to the present disclosure is stored, and it can be understood that there are no restrictions on the physical space.

[53] Information related to a specific patient and treatment records of the specific patient may be matched and stored in the storage unit 120. For example, the information related to the specific patient and the treatment records of the specific patient may include at least one of i) chart number information matched with the treatment records, ii) name information of the specific patient, iii) gender information of the specific patient, iv) age information of the specific patient, v) information on a medical practitioner who treats the specific patient, vi) information on the date of treatment on which the specific patient is treated, and vii) treatment data related to a patient.

[54] Furthermore, the storage unit 120 may store prosthesis order information requested through a medical staff account U1. For example, the prosthetic order information may include at least one of: i) the name, gender, and age information of a specific patient, ii) information on a plurality of pieces of dental formula information corresponding to teeth of the specific patient, iii) prosthesis information reflected in a specific dental formula among the plurality of dental formulas, iv) shade information

of prosthesis reflected in the specific dental formula, and v) additional information (e.g., oral 3D scanner data, treatment chart, etc.) related to a prosthesis order, and memo information.

[55] Furthermore, the storage unit 120 may store the information on the medical staff who have subscribed to a service (e.g., dental prosthesis ordering service) provided by the system 100 for providing dental prosthesis ordering according to the present disclosure. For example, the information on the medical staff may include at least one of: i) information on a name of a medical staff, ii) information on a date of birth of a medical staff, iii) information on a phone number of a medical staff, iv) information on an email address of a medical staff, v) order history information of a medical staff, vi) payment history information of a medical staff, and vii) information on a hospital in which a medical staff works. The information on the medical staff may further include information on a medical staff account (e.g., identification (ID)). The medical staff may use the dental prosthesis ordering service provided by the present disclosure by logging in to the system 100 for dental prosthesis ordering according to the present disclosure using the medical staff account.

[56] Meanwhile, the storage unit 120 may store a plurality of pieces of prosthesis information related to prostheses used for tooth treatment. For example, the plurality of pieces of prosthesis information may include at least one of first prosthesis information (e.g., inlay), second prosthesis information (e.g., crown), third prosthesis information (e.g., implant), and fourth prosthesis information (e.g., NAVI).

[57] In addition, the plurality of pieces of prosthesis information may be matched with a plurality of pieces of tag information corresponding to each of the plurality of pieces of prosthesis information and stored in the storage unit 120. For example, as illustrated in (a) to (c) of FIG. 3E, among the plurality of pieces of prosthesis

information stored in the storage unit 120, first prosthesis information 331 (e.g., “inlay”) may be matched with first tag information 331a and 331b, second prosthesis information 332 (e.g., “crown”) may be matched with second tag information 332a and 332b, and third prosthesis information 333 (e.g., “implant crown”) may be matched with third tag information 333a and 333b.

[58] Furthermore, a plurality of pieces of shade information may match each of the plurality of pieces of tag information and stored in the storage unit 120. For example, as illustrated in (a) to (c) of FIG. 3E, the first tag information 331a and 331b may be matched with first shade information (e.g., blue), the second tag information 332a and 332b may be matched with second shade information (e.g., green), and third tag information 333a and 333b may be matched with third shade information (e.g., yellow).

[59] Meanwhile, the control unit 130 may serve to control the overall operation of the system 100 for dental prosthesis ordering of the present disclosure. The control unit 130 may process signals, data, information, etc., input or output through the components described above, or perform a series of data processing to provide or process appropriate information and functions to a user.

[60] Hereinafter, the method for dental prosthesis ordering according to the present disclosure will be described in more detail based on the configuration of the system 100 for dental prosthesis ordering described above. FIG. 2 is a conceptual diagram for describing a method for dental prosthesis ordering according to the present disclosure. FIGS. 3A to 3G are conceptual diagrams for describing the method for dental prosthesis ordering according to the present disclosure, FIGS. 4A and 4B are conceptual diagrams for describing a method for selecting prosthesis information and dental formula according to an embodiment of the present disclosure, FIG. 5 is a conceptual diagram for describing a method for selecting a dental formula through

drag according to the present disclosure, FIG. 6 is a conceptual diagram for describing a method for changing and displaying an interface whenever a dental formula is selected in the present disclosure, FIG. 7 is a conceptual diagram for describing a splint displayed between dental formulas in the present disclosure, FIGS. 8A and 8B are conceptual diagrams for describing a method for generating a plurality of pieces of order information in the present disclosure. Furthermore, FIGS. 9A and 9B are conceptual diagrams for describing a method for generating additional information and selecting shade information of prosthesis.

- [61]** In the present disclosure, a process may be performed to provide a prosthesis ordering page including dental formula information corresponding to multiple teeth to a user terminal (S210, see FIG. 2). In addition, in the present disclosure, a process may be performed to receive user input specifying at least one of the multiple teeth from the user terminal (S220, see FIG. 2).
- [62]** The control unit 130 may provide the prosthesis ordering page including the plurality of pieces of dental formula information arranged in numerical order according to the arrangement of teeth to the medical staff terminal, and may allow the medical staff terminal to select at least one specific dental formula corresponding to a tooth requiring prosthesis from among the plurality of pieces of dental formula information.
- [63]** As illustrated in FIG. 3A, the control unit 130 may provide a service page 300 (or referred to as a prosthesis ordering page or interface) for generating prosthesis order information to a medical staff terminal 10 logged in to an account of a specific medical staff U.
- [64]** The control unit 130 may receive medical record information for a specific patient by interoperating with the medical staff terminal 10. Furthermore, the control unit 130 may display the received medical record information 310 on one area of the service

page 300. For example, the medical record information 310 for a specific patient may include at least one of chart number information, name information of a specific patient, gender information of the specific patient, age information of the specific patient, information on a medical practitioner who treated the specific patient, information on a date of medical treatment of the specific patient, and medical data related to the specific patient.

- [65] For example, the medical data related to the specific patient may include 3D dental scanning data acquired by scanning the teeth of the specific patient using a 3D oral scanner. However, the above-described medical data is merely an example, and medical data related to a patient may further include other data in addition to the data mentioned.
- [66] The control unit 130 may provide a dental formula graphic object 320 corresponding to a dental formula for identifying a tooth on one area of the service page 300. The dental formula included in the dental formula graphic object 320 may be arranged and displayed in numerical order according to the arrangement of teeth.
- [67] In addition, the dental formula included in the dental formula graphic object 320 may be divided into a plurality (e.g., four) of areas based on the left, right, top, and bottom and displayed separately. For example, the dental formula included in the dental formula graphic object 320 may be divided into a plurality of areas such as a first area 321, a second area 322, a third area 323, and a fourth area 324, and displayed separately.
- [68] The control unit 130 may receive, from the medical staff terminal 10, selection of at least one specific dental formula corresponding to a tooth requiring prosthesis among the plurality of dental formulas included in the dental formula graphic object 320. For example, the control unit 130 may specify, from the medical staff terminal 10, a first dental formula and a second dental formula as a dental formula corresponding to

a tooth requiring prosthesis based on the selection of graphic objects 321a and 321b corresponding to the first dental formula (e.g., "1") and the second dental formula (e.g., "2") included in the first area 321 of the dental formula graphic object 320.

[69] In this case, the plurality of dental formulas included in the dental formula graphic object 320 may be displayed with different visual appearances depending on whether the dental formulas are selected by the medical staff U.

[70] Specifically, some dental formulas, excluding a specific dental formula among the plurality of dental formulas, may be displayed on the display unit of the medical staff terminal 10 with a first visual appearance. Here, the dental formula displayed with the first visual appearance may be understood as a dental formula corresponding to a state in which the dental formula has not been selected by the medical staff terminal.

[71] On the other hand, a specific dental formula may be displayed on the display unit of the medical staff terminal 10 with a second visual appearance different from the first visual appearance. Here, the specific dental formula displayed with the second visual appearance may correspond to a dental formula converted to a second state as any one dental formula corresponding to a first state is selected.

[72] In the present disclosure, for convenience of description, the state of the dental formula displayed with the first visual appearance is referred to as the "first state," and the state of the specific dental formula displayed with the second visual appearance is referred to as the "second state."

[73] As illustrated in FIG. 3A, the control unit 130 may control the display unit of the medical staff terminal 10 such that graphic objects 321a and 321b corresponding to the first and second dental formulas are displayed on the medical staff terminal 10 with the first visual appearance, based on the fact that the first dental formula (e.g., "1") and the second dental formula (e.g., "2") correspond to the first state.

- [74] On the other hand, as illustrated in FIG. 3B, the control unit 130 may control the graphic objects 321a and 321b corresponding to the first dental formula and the second dental formula to be converted from the first state to the second state based on the selection of the first dental formula and the second dental formula corresponding to the first state from the medical staff terminal 10. Furthermore, the control unit 130 may control the display unit of the medical staff terminal 10 such that the graphic objects 321a and 321b converted to the second state are displayed on the medical staff terminal 10 with the second visual appearance different from the first visual appearance.
- [75] In this way, each of the plurality of dental formulas may be displayed on the screen with respectively different visual appearances depending on whether the dental formulas are selected by the medical staff U. The medical staff U may intuitively recognize the type of dental formulas through the visual appearance of the dental formula displayed on the screen.
- [76] Meanwhile, the control unit 130 may receive, from the medical staff terminal, at least one piece of prosthesis information (including the kind or type of prosthesis) to be reflected in the specific dental formula among the plurality of pieces of prosthesis information.
- [77] The prosthesis ordering page may include a prosthesis selection area for selecting any one of the multiple prosthesis types. The control unit 130 may specify a prosthesis type for specific tooth treatment based on the user input to the prosthesis selection area.
- [78] More specifically, as illustrated in FIG. 3C, the control unit 130 may provide a graphic object 330a linked to a function for outputting a list including the plurality of pieces of prosthesis information to one area of the service page 300 (i.e., the prosthesis ordering page). For example, the control unit 130 may control the display unit of the

medical staff terminal 10 such that a list 330 including the plurality of pieces of prosthesis information is provided to the medical staff terminal 10 based on the selection of the graphic object 330a from the medical staff terminal 10.

[79] In this case, when at least one of the plurality of pieces of prosthesis information included in the list 330 is selected from the medical staff terminal 10, the control unit 130 may provide a list including material information (which may also be referred to as the kind of prosthesis or the type of prosthesis) used for manufacturing the prosthesis. For example, as illustrated in FIG. 3D, it is assumed that first prosthesis information 331 is selected from the medical staff terminal 10. The control unit 130 may provide a list 341 including material information used for manufacturing the first prosthesis (e.g., “inlay”) corresponding to the first prosthesis information 331 to the medical staff terminal 10. The medical staff U may select at least one prosthesis to be reflected in the specific dental formula selected by the medical staff from among the plurality of pieces of prosthesis information included in the list 330, and may select at least one material information to be used as a material for manufacturing the prosthesis from among the plurality of pieces of material information included in the material list.

[80] Furthermore, the control unit 130 may receive the selection by the medical staff U for at least one of the plurality of pieces of prosthesis information included in the list 330. For example, the control unit 130 may receive the selection by the medical staff U for the first prosthesis information 331 (e.g., “inlay”) included in the list 330 from the medical staff terminal 10.

[81] Then, the control unit 130 may specify the prosthesis information selected from the medical staff terminal 10 as the prosthesis information to be reflected in the specific dental formula. For example, based on the selection of the first prosthesis information 331 from the medical staff terminal 10, the control unit 130 may specify

the first prosthesis information 331 as the prosthesis information to be reflected in the first dental formula (e.g., "1") and the second dental formula (e.g., "2").

[82] In the present disclosure, in response to the user input, a process may be performed to display a graphic object including a tag corresponding to any one of multiple prosthesis types around dental formula information corresponding to a specific tooth (S230, see FIG. 2).

[83] The control unit 130 may display a tag and a shade of the graphic object (or tag graphic object) including the tag differently depending on the prosthesis type. Furthermore, the control unit 130 may determine the shade of the dental formula information corresponding to the specific tooth to be the same shade as the graphic object.

[84] More specifically, the control unit 130 may reflect the prosthesis information selected from the medical staff terminal in the specific dental formula. For example, as illustrated in FIG. 3C, it is assumed that the first prosthesis information 331 (or the first type of prosthesis) is specified as the prosthesis information to be reflected in the first dental formula (e.g., "1") and the second dental formula (e.g., "2"). The control unit 130 may control the first prosthesis information 331 to be reflected in each of the graphic objects 321a and 321b corresponding to the plurality of dental formulas.

[85] The tag information (also referred to as a graphic object or a tag graphic object) matching the specific prosthesis information may be displayed together in the surrounding area of a specific dental formula graphic object reflecting the prosthesis information. For example, as illustrated in FIG. 3D, the control unit 130 may display first tag information 331a and 331b matching the first prosthesis information in each of the graphic objects 321a and 321b corresponding to the plurality of dental formulas in which the first prosthesis information is reflected.

[86] In this case, the shade information may be matched with the tag information, so the tag

information displayed in the surrounding area of the specific dental formula may be displayed in the shade corresponding to the shade information. For example, the first tag information 331 and 331b may be matched with the first shade information. Accordingly, the control unit 130 may control the first tag information 331a and 331b to be displayed in the surrounding area of each of the plurality of dental formula graphic objects 321a and 321b in a first shade (e.g., blue) corresponding to the first shade information.

[87] As described above, the plurality of pieces of prosthesis information described in the present disclosure may be matched with the plurality of pieces of tag information corresponding to each of the plurality of pieces of prosthesis information. Furthermore, each of the plurality of pieces of tag information may be matched with the plurality of pieces of shade information.

[88] In this regard, the tag information displayed in the surrounding area of the specific dental formula may be displayed in respectively different shades according to the prosthesis information selected from the medical staff terminal 10.

[89] First, the first tag information may be matched with the first prosthesis information (e.g., “inlay”) among the plurality of pieces of prosthesis information, and the first shade information may be matched with the first tag information. For example, as illustrated in (a) of FIG. 3E, when the first prosthesis information 331 (e.g., “inlay”) is selected as the prosthesis information to be reflected in the first dental formula (e.g., “1”) and the second dental formula (e.g., “2”) from the medical staff terminal 10, the control unit 130 may display the first tag information 331a and 331b corresponding to the first prosthesis information 331 in the surrounding area of each of the plurality of graphic objects 321a and 321b corresponding to the first dental formula and the second dental formula. In this case, the control unit 130 may control the display unit of the

medical staff terminal 10 such that the first tag information 331a and 331b is displayed on the medical staff terminal 10 in the first shade (e.g., blue) corresponding to the first shade information based on the matching of the first tag information 331a and 331b with the first shade information.

[90] In addition, the second tag information may be matched with second prosthesis information (e.g., “crown”) among the plurality of pieces of prosthesis information, and the second shade information may be matched with the second tag information. For example, as illustrated in (b) of FIG. 3E, when the second prosthesis information 332 (e.g., “crown”) is selected as the prosthesis information to be reflected in the first dental formula (e.g., “1”) and the second dental formula (e.g., “2”) from the medical staff terminal 10, the control unit 130 may display the second tag information 332a and 332b corresponding to the second prosthesis information 332 in the surrounding area of each of the plurality of graphic objects 321a and 321b corresponding to the first dental formula and the second dental formula. In this case, the control unit 130 may control the display unit of the medical staff terminal 10 such that the second tag information 332a and 332b is displayed on the medical staff terminal 10 in the second shade (e.g., green) corresponding to the second shade information based on the matching of the second tag information 332a and 332b with the second shade information.

[91] Furthermore, the third tag information may be matched with the third prosthesis information (e.g., “implant”) among the plurality of pieces of prosthesis information, and the third shade information may be matched with the third tag information. For example, as illustrated in (c) of FIG. 3E, when the third prosthesis information 333 (e.g., “implant crown”) is selected as the prosthesis information to be reflected in the first dental formula (e.g., “1”) and the second dental formula (e.g., “2”) from the

medical staff terminal 10, the control unit 130 may display the third tag information 333a and 333b corresponding to the third prosthesis information 333 in the surrounding area of each of the plurality of graphic objects 321a and 321b corresponding to the first dental formula and the second dental formula. In this case, the control unit 130 may control the display unit of the medical staff terminal 10 such that the third tag information 333a and 333b is displayed on the medical staff terminal 10 in the third shade (e.g., yellow) corresponding to the third shade information based on the matching of the third tag information 333a and 333b with the third shade information.

- [92] In this way, each of the plurality of pieces of tag information displayed in the surrounding area of the specific dental formula may be displayed on the screen with respectively different visual appearances. The medical staff U may intuitively recognize the type of prosthesis information reflected in the dental formula through the visual appearance of the tag information displayed on the screen.
- [93] Meanwhile, while the specific dental formula and the prosthesis information to be reflected in the specific dental formula are being selected on the medical staff terminal 10, the control unit 130 may provide order summary information on the specific dental formula and the prosthesis information selected from the medical staff terminal 10.
- [94] The order summary information may be provided in real time while at least one of the specific dental formula and the prosthesis information to be reflected in the specific dental formula is selected on the medical staff terminal 10, or the order summary information may be provided while both the specific dental formula and the prosthesis information to be reflected in the specific dental formula are selected. In the present disclosure, the time in point at which the order summary information is provided is not limited to any one.

- [95] As illustrated in FIG. 3F, the control unit 130 may display the order summary information 350 on the specific dental formula and the prosthesis information selected from the medical staff terminal 10 in one area of the service page 300. For example, the order summary information 350 may include at least one of prosthesis information 351 reflected in the specific dental formula (e.g., 1, 2), information on a specific dental formula 352, and shade information 353 of prosthesis.
- [96] In the information 352 on the specific dental formula among the plurality of pieces of information 351, 352, and 353 included in the order summary information 350, the shade related to the prosthesis information reflected in the specific dental formula may be displayed together. For example, the control unit 130 may control the shade (e.g., blue) corresponding to the first tag information matched with the first prosthesis information to be displayed in the information 352 on the specific dental formula based on the fact that the information 351 on the prosthesis reflected in the specific dental formula corresponds to the first prosthesis information (e.g., “inlay”).
- [97] Furthermore, the shade information 353 of the prosthesis may be configured to include the information related to the shade of the prosthesis to be used for treatment of a tooth corresponding to the specific dental formula. More specific details of the shade information 353 of the prosthesis will be described below.
- [98] In the present disclosure, a process of receiving a prosthesis order request for treatment of a specific tooth from the user terminal may be performed while the graphic object including the tag is displayed (S240, see FIG. 2). Furthermore, in the present disclosure, a process of generating prosthesis manufacturing information by linking the specific tooth, the prosthesis information corresponding to the tag, and patient information may be performed based on the receipt of the prosthesis order request (S250, see FIG. 2).

- [99] When receiving an order request for the prosthesis reflected in the specific dental formula from the medical staff terminal, the control unit 130 may generate the order information for manufacturing the prosthesis reflected in the specific dental formula in response to the order request and transmit the generated order information to a specific laboratory server. That is, the control unit 130 may generate the prosthesis manufacturing information to correspond to the information displayed on the prosthesis ordering page (or interface) and transmit the generated prosthesis manufacturing information to the specific laboratory server, thereby mediating prosthesis manufacturing order between the medical staff and the laboratory.
- [100] As illustrated in FIG. 3D, the control unit 130 may provide a graphic object 360a linked to the order request for the prosthesis reflected in the specific dental formula to one area of the service page 300. For another example, the graphic object 360a may also be understood as the graphic object linked to the generation of the order information.
- [101] In addition, the control unit 130 may generate the order information for ordering the first prosthesis (e.g., crown) reflected in the first dental formula (e.g., “1”) and the second dental formula (e.g., “2”) based on the selection of the graphic object 360a linked to the order request from the medical staff terminal 10. For example, as illustrated in FIG. 3G, the control unit 130 may generate the order information 360 for ordering the first prosthesis reflected in the first dental formula (e.g., “1”) and the second dental formula (e.g., “2”).
- [102] Furthermore, the control unit 130 may transmit the generated order information 360 to the specific laboratory server. As an example, the specific laboratory server may be a laboratory server interoperated (or affiliated) with the system 100 for dental prosthesis ordering according to the present disclosure. As another example, the specific laboratory server may be a laboratory server interoperating with a server of a

dental clinic in which the medical staff U works, or may be a laboratory server directly requested by the medical staff U. The specific laboratory server described in the present disclosure is not limited to any one.

[103] Meanwhile, the control unit 130 may control the order information 360 to be displayed in one area of the service page 300.

[104] In this case, the control unit 130 may provide guidance information 361, which guides the progress stage of ordering, along with the order information 360. For example, the guidance information 361 may include at least one of information on the time in point at which the order information 360 is transmitted to the specific laboratory server, information on a work progress status corresponding to the order information, and information on a delivery progress status of prosthesis corresponding to the order information. Through the guidance information 361 included in the order information 360, the medical staff U may intuitively recognize at least one of the point in time at which the order information is received, the progress status of the work corresponding to the order information, and the delivery progress status of the prosthesis corresponding to the order information.

[105] Meanwhile, the control unit 130 may first receive the selection of the prosthesis information from the medical staff terminal 10 and then receive the selection of the specific dental formula.

[106] In the process described above, a process of first selecting the specific dental formula and then selecting the prosthesis information to be reflected in the specific dental formula is described, but a process of first selecting the prosthesis information and then receiving the selection of the specific dental formula is also possible. In other words, in the present disclosure, the point in time at which the specific dental formula and the prosthesis information are selected is not limited to any one.

- [107] First, the control unit 130 may receive the selection of the medical staff U of at least one of the plurality of pieces of prosthesis information. For example, as illustrated in FIG. 4A, the control unit 130 may receive the selection of second prosthesis information 401 (e.g., “crown”) from the medical staff terminal 10.
- [108] Next, the control unit 130 may receive, from the medical staff terminal 10, the selection of the specific dental formula in which the second prosthesis information 401 is to be reflected. For example, as illustrated in FIGS. 4A and 4B, the control unit 130 may specify the first dental formula (e.g., “1”) and the second dental formula (e.g., “2”) as the dental formula in which the second prosthesis information 401 is to be reflected, based on the selection of a plurality of graphic objects 411a and 411b corresponding to the first dental formula (e.g., “1”) and the second dental formula (e.g., “2”), respectively, included in a first area 411 of a dental formula graphic object 410 from the medical staff terminal 10.
- [109] Furthermore, the control unit 130 may reflect the second prosthesis information 401 in each of the first dental formula and the second dental formula. For example, the control unit 130 may display first tag information 401a and 401b corresponding to the second prosthesis information 401 in the surrounding area of each of the plurality of graphic objects 411a and 411b corresponding to the first dental formula and the second dental formula.
- [110] Meanwhile, in the present disclosure, the method of selecting a specific dental formula may be performed through a user input of a predefined scheme. For example, the user input of the predefined scheme may include at least one of drag and drop and a preset number of times of touches (e.g., touch or double touch).
- [111] Hereinafter, for convenience of description, it will be described under the assumption that the user input of the predefined scheme is drag and drop, and that the prosthesis

information to be reflected in the specific dental formula has already been selected.

- [112] When receiving the user input (hereinafter, drag-and-drop input) of the predefined scheme for an area including at least one of the plurality of dental formulas corresponding to the first state, the control unit 130 may control the dental formula included in the input area to be converted to the second state. For example, as illustrated in (a) of FIG. 5, the control unit 130 may control the plurality of dental formulas corresponding to the first state to be converted from the first state to the second state based on the receipt of the drag-and-drop input for an area 510 including the plurality of dental formulas (e.g., “1”, “2”) corresponding to the first state from the medical staff terminal 10. Then, the control unit 130 may display first tag information 501a and 501b corresponding to the first prosthesis information 501 in the surrounding area of each of the plurality of dental formulas.
- [113] On the other hand, when receiving the drag-and-drop input for the area including at least one of the plurality of dental formulas corresponding to the second state, the control unit 130 may control the dental formula included in the input area to be switched from the second state to the first state. For example, as illustrated in (b) of FIG. 5, the control unit 130 may control the plurality of dental formulas corresponding to the second state to be converted from the second state to the first state based on the receipt of the drag-and-drop input for an area 520 including the plurality of dental formulas (e.g., “1”, “2”) corresponding to the second state from the medical staff terminal 10. Then, the control unit 130 may control the first tag information 501a and 501b displayed in the surrounding area of each of the plurality of dental formulas not to be displayed.
- [114] Meanwhile, the dental formula displayed on the display unit of the medical staff terminal 10 may be displayed with respectively different visual appearances when the

dental formula is selected by the medical staff U.

- [115] The control unit 130 may receive the user input from the medical staff terminal based on the user input applied to the area corresponding to the dental formula information of the specific tooth on the prosthesis ordering page. When receiving the user input while the graphic object is not displayed around the dental formula information of the specific tooth, the control unit 130 may control the tag graphic object to be displayed around the dental formula information of the specific tooth. In addition, when the user input is received while the graphic object is displayed around the dental formula corresponding to the specific tooth, the control unit 130 may control the graphic object to disappear, and the dental formula information corresponding to the specific tooth to be converted to pontic data.
- [116] For example, as illustrated in FIG. 6, it is assumed that a first dental formula (e.g., “1”) graphic object 601a included in a first area 601 of a plurality of areas 601, 602, 603, and 604 included in a dental formula graphic object 600 is specified as the dental formula graphic object in which the first prosthesis information (e.g., inlay) is to be reflected. The control unit 130 may control first tag information 611a corresponding to the first prosthesis information to be displayed in the surrounding area of the first dental formula graphic object 601a by reflecting the first prosthesis information in the first dental formula graphic object 601a.
- [117] In this case, the remaining dental formulas, excluding the specific dental formula (e.g. “1”) among the plurality of dental formulas, may be displayed on the display unit of the medical staff terminal 10 with the first visual appearance. Here, the dental formula displayed with the first visual appearance may correspond to the first state that is not selected by the medical staff terminal 10.
- [118] On the other hand, the specific dental formula (e.g., “1”) may be displayed on the

display unit of the medical staff terminal 10 with the second visual appearance different from the first visual appearance. When at least one dental formula corresponding to the first state is selected from the medical staff terminal 10, the control unit 130 may control the selected dental formula to be converted to the second state.

[119] That is, the specific dental formula displayed with the second visual appearance may correspond to the dental formula converted to the second state as any one dental formula corresponding to the first state is selected.

[120] Meanwhile, when the specific dental formula is selected by the medical staff U while the specific dental formula corresponding to the second state is displayed on the display of the medical staff terminal 10, the control unit 130 may control the specific dental formula to be converted from the second state to the third state.

[121] Here, the specific dental formula corresponding to the third state may include the pontic data. The pontic data may be data requesting the processing of a tooth prosthesis for a tooth without an abutment.

[122] For example, as illustrated in FIG. 6, the control unit 130 may control the first dental formula graphic object 601a corresponding to the second state to be converted from the second state to the third state based on the selection of the first dental formula graphic object 601a corresponding to the second state from the medical staff terminal 10. In this case, the first dental formula graphic object 601a in the third state may be configured to have a visual appearance (e.g., “X”) corresponding to the pontic data.

[123] That is, the specific dental formula including the pontic data may be displayed on the medical staff terminal 10 with a third visual appearance different from the second visual appearance.

[124] Meanwhile, in the present disclosure, splint information linked to the reception of

whether a splint operation is to be performed may be displayed between the plurality of dental formulas. For example, the presence or absence of the splint may include whether the tooth prostheses to be used for each of the multiple teeth are grouped and connected.

- [125] When a first tooth and a second tooth adjacent to the first tooth are specified among the multiple teeth, the control unit 130 may display a graphic object (referred to as a splint graphic object or splint information) corresponding to a splint for connecting the first and second teeth between the first dental formula information corresponding to the first tooth and the second dental formula information corresponding to the second tooth.
- [126] The splint may be connected between the each tooth to serve to stabilize a tissue connecting each tooth to address various issues such as tooth movement, tooth loosening, and tooth fracture (or breakage), or may limit tooth movement to serve to promote a healing process. For example, materials and shapes used to manufacture the splint may vary depending on the patient's dental condition or treatment purpose.
- [127] In the present disclosure, the criteria for displaying the splint information may be set variously. For example, the splint information may be displayed in a section where the splint is frequently used, depending on the kind of prosthesis. As another example, when the plurality of dental formulas are selected, the splint information may be displayed between the plurality of dental formulas. However, the above-described splint information display criteria are merely examples, and the splint information may be displayed based on criteria other than the criteria mentioned. Hereinafter, for convenience of description, it will be described under the assumption that the plurality of dental formulas are selected and the splint information is displayed.
- [128] For example, as illustrated in (a) of FIG. 7, the control unit 130 may control splint

information 702 to be displayed between each of the plurality of dental formula graphic objects 701a and 701b based on the selection of a plurality of dental formula graphic objects 701a and 701b corresponding to the first dental formula and the second dental formula from the medical staff terminal 10.

- [129] The splint information 702 may be displayed with respectively different visual appearances between each dental formula depending on whether the splint information 702 is selected by the medical staff U. More specifically, the splint information 702 that has not been selected from the medical staff terminal 10 may be displayed with the first visual appearance, and the splint information 702 selected from the medical staff terminal 10 may be displayed with the second visual appearance different from the first visual appearance.
- [130] For example, as illustrated in (a) of FIG. 7, the control unit 130 may control the splint information 702, which is not selected from the medical staff terminal 10, to be displayed with the first visual appearance.
- [131] On the other hand, as illustrated in (b) of FIG. 7, the control unit 130 may control the splint information 702 to be displayed with the second visual appearance different from the first visual appearance based on the selection of the splint information 702 displayed between the plurality of dental formula graphic objects 701a and 701b from the medical staff terminal 10.
- [132] That is, when receiving the input to the splint information 702 having the second visual appearance, the control unit 130 may determine whether to perform the splint operation as "YES", thereby generating the order information to perform the splint operation. On the other hand, when receiving the input to the splint information 702 having the first visual appearance, the control unit 130 may determine whether to perform the splint operation as "NO", thereby generating the order information not to perform the

splint operation.

- [133] Meanwhile, the present disclosure may provide a user environment that may generate the plurality of pieces of order information on one screen. The service page 300 (prosthesis ordering page) may include summary information for a prosthesis order. In this case, the summary information may include at least one of information on the specific tooth and the prosthesis type for treating the specific tooth.
- [134] As illustrated in FIG. 8A, first order summary information 810 may include information on the first prosthesis (e.g., inlay) reflected in the plurality of dental formulas (e.g., “1”, “2”) included in a first area 801 among a plurality of areas 801, 802, 803, and 804 included in the dental formula graphic object 800.
- [135] The control unit 130 may provide a graphic object 820a linked to a request for generating order information for a plurality of prostheses such that the medical staff terminal 10 may generate order information for prostheses other than the first prosthesis included in the first order summary information 810.
- [136] Then, based on the selection of the graphic object 820a from the medical staff terminal 10, the control unit 130 may provide, to the medical staff terminal 10, a screen that may generate the information on the prosthesis to be reflected in the dental formula different from the plurality of dental formulas (e.g., “1”, “2”) in which the first prosthesis is reflected and other dental formulas. In this case, the control unit 130 may control such that only the dental formula (or dental formulas included in other areas) different from the dental formula in which specific prosthesis information is reflected may be selected. For example, as illustrated in FIGS. 8A and 8B, the control unit 130 may display and provide the plurality of dental formulas (e.g., “1”, “2”) included in the first order summary information 810 in a disabled state on the medical staff terminal 10 such that the dental formulas may not be selected.

- [137] The control unit 130 may generate, from the medical staff terminal 10, second order summary information 820 including the information on the plurality of dental formulas in which the second prosthesis information (e.g., crown) is reflected, based on the selection of a plurality of dental formula graphic objects 803a and 803b (e.g., “3”, “4”) included in the third area 803 among the plurality of areas 801, 802, 803, and 804 included in the dental formula graphic object 800, and the selection of the second prosthesis information as the prosthesis information to be reflected in the plurality of dental formulas.
- [138] In this regard, when receiving an order information generation request including the first order summary information 810 and the second order summary information 820 from the medical staff terminal 10, the control unit 130 may generate the order information on the plurality of prostheses included in the plurality of pieces of order summary information. That is, the control unit 130 may generate the first order summary information 810 and the second order summary information 820 for the plurality of prosthetics by including the first order summary information 810 and the second order summary information 820 in single order information.
- [139] Furthermore, in the order summary information, a graphic object linked to a function for modifying the order information included in the order summary information and a graphic object linked to a function for deleting the order summary information may be provided. For example, as illustrated in FIG. 8B, the control unit 130 may provide a graphic object 821 linked to a function for modifying the order information included in the second order summary information 820 and a graphic object 822 linked to a function for deleting the order information included in the second order summary information 820. The medical staff U may select the graphic object 821 linked to the modification function to modify the order information included in the second order

summary information 820, or select the graphic object 822 linked to the deletion function to delete the order information included in the second order summary information 820.

[140] Meanwhile, an environment for selecting additional information and shade information on prosthesis reflected in a specific dental formula may be provided in one area of a service page 900 provided in the present disclosure.

[141] For example, as illustrated in FIG. 9A, the control unit 130 may provide a plurality of graphic objects 911 and 912 linked to a function for inputting additional information 910 in one area of the service page 900. Here, the additional information may be configured to display data (e.g., a photo, a video, an image of a patient's oral scanner) input from the medical staff terminal 10. The medical staff U may select at least one of the plurality of graphic objects 911 and 912 and input at least one piece of data related to a specific patient.

[142] For another example, as illustrated in FIGS. 9A and (a) of 9B, the control unit 130 may provide a graphic object 921a linked to an output function of a list 921 including the plurality of pieces of shade information so that shade information 920 of the first prosthesis (e.g., inlay) reflected in the plurality of dental formulas (e.g., “1”, “2”) may be selected in one area of the service page 900. The medical staff U may select the shade of the first prosthesis reflected in the plurality of dental formulas (e.g., “1”, “2”) through the list 921 including the plurality of pieces of shade information.

[143] In addition, as illustrated in (b) of FIG. 9B, the control unit 130 may provide a plurality of lists 922, 923, and 924 from which the shade information may be selected for each of a incisal part, a middle part, and a cervical part of the prosthesis, based on the selection of a graphic object 922a linked to an expanded input of the shade information of the prosthesis from the medical staff terminal 10.

- [144] Furthermore, as illustrated in (c) of FIG. 9B, the shade information selected from the medical staff terminal 10 may be reflected and displayed in the order summary information. In this case, when the plurality of pieces of order summary information exists, the control unit 130 may provide the environment in which the shade information may be set for each prosthesis included in the plurality of pieces of order summary information.
- [145] As described above, the method and system for dental prosthesis ordering according to the present disclosure may provide a highly readable interface by displaying the dental formulas for identifying teeth based on tooth positions.
- [146] In addition, according to the method and system for dental prosthesis ordering according to the present disclosure, it is possible to provide an interface that may easily and conveniently perform the ordering of the prosthesis to be used for tooth selection and treatment of each tooth.
- [147] In addition, according to the method and system for dental prosthesis ordering according to the present disclosure, by displaying the prosthesis applied to each tooth so as to be intuitively recognized, it is possible to enhance the readability of the interface for the technician who manufactures the prostheses.
- [148] Meanwhile, as described above, the present disclosure may be implemented as a program that is executed by one or more processes on a computer and stored on a computer-readable medium (or recording medium).
- [149] Furthermore, as described above, the present disclosure may be implemented as computer-readable codes or instructions on a medium recording the program. In other words, the present disclosure may be provided in the form of the program.
- [150] Meanwhile, the computer readable medium may include all kinds of recording devices in which computer system-readable data is stored. An example of the computer

readable medium may include a hard disk drive (HDD), a solid state disk (SSD), a silicon disk drive (SDD), a read only memory (ROM), a random access memory (RAM), a compact disk read only memory (CD-ROM), a magnetic tape, a floppy disk, an optical data storage, and the like.

[151] Furthermore, the computer-readable medium may be the server or cloud storage that includes storage and may be accessed by the electronic device via communication. In this case, the computer may download the program according to the present disclosure from the server or cloud storage via wired or wireless communication.

[152] Furthermore, in the present disclosure, the computer described above is an electronic device equipped with a processor, i.e., a central processing unit (CPU), and there are no particular limitations on its type.

[153] Meanwhile, the above-described detailed description is to be interpreted as being illustrative rather than being restrictive in all aspects. The scope of the present disclosure is to be determined by reasonable interpretation of the claims, and all modifications within an equivalent range of the present disclosure fall in the scope of the present disclosure.

【CLAIMS】

【Claim 1】

A method for prosthesis ordering, comprising:

providing a prosthesis ordering page including dental formula information corresponding to multiple teeth to a user terminal;

receiving a user input specifying at least one of the multiple teeth from the user terminal;

displaying, in response to the user input, a graphic object including a tag corresponding to any one of multiple prosthesis types around the dental formula information corresponding to the specific tooth;

receiving a prosthesis order request for treatment of the specific tooth from the user terminal while the graphic object including the tag is displayed; and

generating, based on receipt of the prosthesis order request, prosthesis manufacturing information by linking the specific tooth, the prosthesis information corresponding to the tag, and patient information.

【Claim 2】

The method of claim 1, wherein the shades of the tag and the graphic object vary depending on the prosthesis type.

【Claim 3】

The method of claim 2, wherein a shade of the dental formula information corresponding to the specific tooth is determined to be the same shade as the graphic object.

【Claim 4】

The method of claim 3, wherein the user input is received from the user terminal based on being applied to an area corresponding to the dental formula information of the specific tooth, and

when the user input is received while the graphic object is not displayed around the dental formula information of the specific tooth, the graphic object is displayed.

【Claim 5】

The method of claim 4, wherein, when the user input is received while the graphic object is displayed around a dental formula corresponding to the specific tooth, the graphic object disappears, and the dental formula information corresponding to the specific tooth is converted to pontic data.

【Claim 6】

The method of claim 5, wherein the prosthesis ordering page includes a prosthesis selection area for selecting any one of the multiple prosthesis types, and

the prosthesis type for treating the specific tooth is specified based on the user input to the prosthesis selection area.

【Claim 7】

The method of claim 6, wherein, when a first tooth and a second tooth adjacent to the first tooth are specified among the multiple teeth, a graphic object corresponding to a splint for connecting the first tooth and the second tooth is displayed between first dental formula information corresponding to the first tooth and second dental formula information corresponding to the second tooth.

【Claim 8】

The method of claim 8, wherein the prosthesis ordering page includes summary information for the prosthesis order, and

the summary information includes at least one of information on the specific tooth and the prosthesis type for treating the specific tooth.

【Claim 9】

A system for prosthesis ordering, comprising:

a control unit providing a prosthesis ordering page including dental formula information corresponding to multiple teeth to a user terminal; and

a communication unit receiving a user input specifying at least one of the multiple teeth from the user terminal,

wherein the control unit is configured to display, in response to the user input, a graphic object including a tag corresponding to any one of multiple prosthesis types around the dental formula information corresponding to the specific tooth,

receive a prosthesis order request for treatment of the specific tooth from the user terminal while the graphic object including the tag is displayed, and

generate, based on receipt of the prosthesis order request, prosthesis manufacturing information by linking the specific tooth, the prosthesis information corresponding to the tag, and patient information.

【Claim 10】

A program stored on a computer-readable recording medium, executed by one or more processes in an electronic device,

wherein the program includes instructions to perform:

providing a prosthesis ordering page including dental formula information corresponding to multiple teeth to a user terminal;

receiving a user input specifying at least one of the multiple teeth from the user terminal;

displaying, in response to the user input, a graphic object including a tag corresponding to any one of multiple prosthesis types around the dental formula information corresponding to the specific tooth;

receiving a prosthesis order request for treatment of the specific tooth from the user terminal while the graphic object including the tag is displayed; and

generating, based on receipt of the prosthesis order request, prosthesis manufacturing information by linking the specific tooth, the prosthesis information corresponding to the tag, and patient information.