

Claims

[Claim 1]

A design information providing device comprising:

a first webpage transmitter configured to transmit data on a first webpage where a plurality of composite components are arranged and displayed, to a terminal via a network, each of the composite components being formed by assembling of a plurality of elemental components including a marketed elemental component;

a receiver configured to receive, via the network, data indicating a selected composite component which is a composite component selected by a user from the first webpage displayed on the terminal;

a second webpage transmitter configured to transmit data on a second webpage to the terminal via the network, the second webpage displaying

a 3D view of the selected composite component,

a name of each elemental component forming the selected composite component and a position of each elemental component forming the selected composite component on the 3D view,

a design consideration on the selected composite component, and

a file request operation section;

a request receiver configured to receive a file request made by the user via the file request operation section at the terminal; and

a file transmitter configured to when the request receiver receives the file request, transmit data on a design file of the selected composite component to the terminal via the network such that a specification of the selected composite component is changed from a default specification at the terminal, the data on the design file containing

information on a composite component with the default specification,

information on elemental components forming the composite component with the default specification, and

information on elemental components forming the composite component with a specification different from the default specification.

[Claim 2]

The design information providing device according to claim 1, wherein

the elemental components forming the composite component include, in addition to the marketed elemental component marketed by a provider of the design file, an internally-manufactured elemental component internally manufactured by the user,

the internally-manufactured elemental component includes a plurality of first-type internally-manufactured elemental components identified by a first parameter value,

the marketed elemental component includes a plurality of second-type marketed elemental components identified by a second parameter value,

the design file contains data on the plurality of first-type internally-manufactured elemental components, data on the plurality of second-type marketed elemental components, and data on plural combinations between the first and second parameter values,

one of the plural combinations is set corresponding to the composite component with the default specification,

the remaining combination is set corresponding to the composite component with the specification other than the default specification, and

the data on the design file of the selected composite component is made such that the specification of the selected composite component is changeable by changing the combination.

[Claim 3]

The design information providing device according to claim 2, wherein

the second parameter value in the combination corresponding to the default specification and the second parameter value in the combination corresponding to the specification other than the default specification are dynamically set.

[Claim 4]

The design information providing device according to claim 2, wherein

each composite component is divided into a plurality of composite component portions such that a parameter value combination change is made without interference, and

each combination is set for a corresponding one of the composite components portions.

[Claim 5]

The design information providing device according to claim 2, wherein the design file contains

data on a component drawing of each marketed elemental component having a corresponding parameter value, and

data on a name of the component drawing, the name including a model number determined for each marketed elemental component having a corresponding parameter value by the provider of the design file.

[Claim 6]

A design information providing device comprising :

a first screen transmitter configured to transmit data on a first screen where a plurality of composite components are arranged and displayed, to a display of a data processor, each of the composite components being formed by assembling of a plurality of elemental components including a marketed elemental component;

a receiver configured to receive data indicating a selected composite component which is a composite component selected by a user from the first screen displayed on the display;

a second screen transmitter configured to transmit data on a second screen to the display, the second screen displaying

a 3D view of the selected composite component,

a name of each elemental component forming the selected composite component and a position of each elemental component forming the selected composite component on the 3D view,

a design consideration on the selected composite component, and

a file request operation section;

a request receiver configured to receive a file request made by the user via the file request operation section at the terminal; and

a file transmitter configured to when the request receiver receives the file request, transmit data on a design file of the selected composite component to the terminal via the network such that a specification of the selected composite component is changed from a default specification at the data processor, the data on the design file containing

information on a composite component with the default specification,

information on elemental components forming the composite component with the default specification, and

information on elemental components forming the composite component with a specification different from the default specification.

[Claim 7]

The design information providing device according to Claim 6, wherein

the elemental components forming the composite component include, in addition to the marketed elemental component marketed by a provider of the design file, an internally-manufactured elemental component internally manufactured by the user,

the internally-manufactured elemental component includes a plurality of first-type internally-manufactured elemental components identified by a first parameter value,

the marketed elemental component includes a plurality of second-type marketed elemental components identified by a second parameter value,

the design file contains data on the plurality of first-type internally-manufactured elemental components, data on the plurality of second-type marketed elemental components, and data on plural combinations between the first and second parameter values.

one of the plural combinations is set corresponding to the composite component with the default specification,

the remaining combination is set corresponding to the composite component with the specification other than the default specification, and

the data on the design file of the selected composite component is made such that the specification of the selected composite component is changeable by changing the combination.

[Claim 8]

The design information providing the device according to Claim 7, wherein the second parameter value in the combination corresponding to the default specification and the second parameter value in the combination corresponding to the specification other than the default specification are dynamically set.[Claim 9]

The design information providing device according to claim 7, wherein each composite component is divided into a plurality of composite component portions such that a parameter value combination change is made without interference, and each combination is set for a corresponding one of the composite components portions.

[Claim 10]

The design information providing device according to claim 7, wherein the design file contains

- data on a component drawing of each marketed elemental component having a corresponding parameter value, and
- data on a name of the component drawing, the name including a model number determined for each marketed elemental component having a corresponding parameter value by the provider of the design file.