

What is claimed is:

1. A system for computer-aided design of an object, an article, or a consumer good, comprising:

an application server comprising at least one processor-enabled medium having one or more modules of a design software application residing thereon that are executable by the at least one processor; and

a web server comprising at least one processor-enabled medium, different from the application server processor, having a computer code residing thereon that is executable by the at least one processor for providing a website interface for accessing the design software application,

wherein the one or more executable software modules include at least a design module, a test module, a user interface display module, a social media module, and a commerce module,

wherein the design module is configured to:

receive from at least a first and a second user via the website displayed on a first computer of the first user and a second computer of the second user, at least a first input from the first user and, independent from the first user, a second input from the second user, wherein the inputs comprise one or more modifications to an existing design template of the object, the article, or the consumer good,

permit each of the at least first and second users to provide comments about another user's input,

compare the inputs from each of the at least first and second users to one or more predetermined criteria residing in the application server processor-enabled medium,

accept any one or more of the user inputs if it or they satisfy the one or more predetermined criteria and reject any one or more of the user inputs if it or they do not satisfy the one or more predetermined criteria, and

modify by the design module the existing design template based on the accepted user inputs to generate a modified design template of the object, the article, or the consumer good,

wherein the test module is configured to receive an input from any one or more of the at least first and second users, and thereafter cause the at least one application server processor to execute the test module for evaluating the modified design template using one or more of the one or more predetermined criteria, and

wherein the social media module is configured to display by the web server one or more of a plurality of user profiles, the user profiles comprising information about a respective user and the modified design template modified by the design module.

2. The system of claim 1, further comprising a 3-D printer configured to fabricate the object, the article, or the consumer good, based on the modified design template.

3. The system of claim 1, wherein the design software application is further configured to display the modified design template or information contained in the modified design template by the social media module to elicit feedback from other users of the design software application.

4. The system of claim 1, wherein the design software application is further configured to output the modified design template or information contained in the modified design template by the social media module to elicit feedback from web users.

5. The system of claim 1, wherein evaluating the modified design template using one or more of the one or more predetermined criteria includes determining whether the modified design template or information contained in the modified design template complies with government regulations or industry standards.

6. The system of claim 1, wherein evaluating the modified design template using one or more of the one or more predetermined criteria includes determining whether parts designed to interlock actually fit together.

7. The system of claim 1, wherein evaluating the modified design template using

one or more of the one or more predetermined criteria includes modeling a virtual object, article, or consumer good, based on the modified design template or information contained in the modified design template and simulating an effect of an external force on the virtual object, article, or consumer good.

8. The system of claim 7, wherein the external force includes gravity or a wind force.

9. The system of claim 8, wherein the simulated effect includes determining whether the wind force will cause a harmonic oscillation of the virtual object, article, or consumer good.

10. The system of claim 1, wherein the modified design template or information contained in the modified design identifies at least one material to fabricate the object, the article, or the consumer good, and the evaluation of the modified design template or information contained in the modified design using one or more of the one or more predetermined criteria includes evaluating at least one material.

11. The system of claim 10, wherein the evaluation of the one or more materials includes evaluating the one or more materials based on strength, cost or compatibility with other materials included in the modified design template or information contained in the modified design template.

12. The system of claim 1, wherein the design software application is further configured to store the predetermined criteria in the application server processor-enabled medium and evaluate a second modified design template based on the predetermined criteria.

13. The system of claim 1, wherein the design software application further includes an interface for a web user or industry representative to purchase or license the design, or for the first or second user of the design software application to sell or license the design to a different web user or industry representative.

14. The system of claim 1, wherein the design software application includes an interface for a web user to purchase or sell the object, the article, or the consumer good fabricated based on the modified design template.

15. A non-transitory computer readable storage medium comprising a design software application having one or more executable software modules including at least a design module, a test module, a user interface display module, a social media module, and a commerce module, and one or more predetermined criteria,

wherein the design module is configured to:

receive from a first computer system operated by a first user at least a first input comprising one or more first modifications to an existing design template of an object, an article, or a consumer good;

receive from a second computer system independent from the first computer system operated by a second user a second input comprising one or more second modifications to the existing design template;

permit each of the first and the second users to provide comments about the other user's input,

compare the inputs from each of the first and the second users to the one or more predetermined criteria;

accept any one or more of the user inputs if it or they satisfy the one or more predetermined criteria and reject any one or more of the user inputs if it or they do not satisfy the one or more predetermined criteria,

modify by the design module the existing design template based on the accepted user inputs to generate a modified design template of the object, the article, or the consumer good, and

wherein the user interface display module is configured to display three-dimensional views of the existing and modified design template.

16. The computer readable storage medium of claim 15, wherein the application is

further configured to output the modified design to a 3-D printer configured to fabricate the object, the article, or the consumer good based on the modified design template.

17. A method of manufacturing an object, and article, or a consumer good, the method comprising:

providing an application server comprising at least one processor-enabled medium having one or more modules of a design software application residing thereon that are executable by the at least one processor, wherein the one or more executable software modules include at least a design module, a test module, a user interface display module, a social media module, a commerce module, and one or more predetermined criteria, wherein the test module is configured to receive an input from any one or more of at least a first and a second user and thereafter cause the at least one application server processor to execute the test module for evaluating a modified design template using one or more of the one or more predetermined criteria, and wherein the social media module is configured to display by a web server one or more of a plurality of user profiles, the user profiles comprising information about a respective user and the modified design template modified by the design module;

providing the web server comprising at least one processor-enabled medium, different from the application server processor, having a computer code residing thereon that is executable by the at least one processor for providing a website interface for at least the first user and the second user to access the design software application using respective first and second computers;

receiving from the first user via the website displayed on the first computer a first input comprising a first modification to the existing design template for creating a new design of the object, the article, or the consumer good;

receiving from the second user independently from the first user via the website displayed on the second computer a second input comprising a second modification to the existing design template;

comparing the inputs from each of the first and second users to the one or more predetermined criteria;

accepting any one or more of the user inputs if it or they satisfy the one or more

predetermined criteria and rejecting any one or more of the user inputs if it or they do not satisfy the one or more predetermined criteria; and

modifying by the design module the existing design template based on the accepted user inputs to generate the modified design template of the object, the article, or the consumer good.

18. The method of claim 17, further comprising:

outputting the modified design template to a 3-D printer configured to fabricate the object, the article, or the consumer good based on the modified design template.

19. The system of claim 1, wherein the existing design template and the modified design template comprise information useful in fabricating one of an automobile part, an article of clothing, and a household appliance.