What is claimed is:

1. A method of making an article, the method comprising:

providing a molding tool having a microstructured surface including a plurality of cavities;

at least partially filling the plurality of cavities with a first radiation curable resin;

exposing the first radiation curable resin to a first, patterned irradiation to provide a correspondingly patterned partially cured resin comprising at least one first region and at least one second region, wherein the at least one first region is irradiated by the first, patterned irradiation and the at least one second region is not irradiated by the first, patterned irradiation;

applying a second radiation curable resin over the partially cured resin;

exposing both the at least one first region and the at least one second region to a second irradiation to provide an article having a microstructured surface and a differentially cured pattern therein; and

separating the article having a microstructured surface and a differentially cured pattern therein from the molding tool,

wherein the patterned irradiation comprises at least one of irradiating through transparent regions of a mask, guiding a beam of light, guiding a beam of electrons, or projecting a digital image.

~~2. The method of claim 1, wherein the patterned irradiation comprises at least one of irradiating through transparent regions of a mask, guiding a beam of light, guiding a beam of electrons, or projecting a digital image.~~

2.~~3.~~ The method of claim 1, wherein the second radiation curable resin contacts a major surface of an overlay element.

3.~~4.~~ The method of claim ~~3~~2, wherein the overlay element comprises a material selected from the group consisting of polymeric film, paper, fabric, fiberglass, nonwovens, glass, and metal foil.

4.~~5.~~ The method of claim ~~3~~2, wherein the overlay element is transparent to the radiation used in at least one of the irradiations.

5.~~6.~~ The method of claim 1, wherein the molding tool is transparent to the radiation used in at least one of the irradiations.

6.~~7.~~ The method of claim ~~5~~6, wherein the overlay element is opaque to the patterned irradiation.

7.~~8.~~ The method of any one of claims 1 to 6~~7~~, wherein the first and second radiation curable resins each have an index of refraction, and wherein the index of refraction of the first and second radiation curable resins have an absolute difference of less than 0.0002.

8.~~9.~~ The method of any one of claims 1 to 6~~7~~, wherein the first and second radiation curable resins each have an index of refraction, and wherein the index of refraction of the first and second radiation curable resins have an absolute difference of at least 0.0002.

9.~~10.~~ The method of any of claims 1 to 6~~9~~, wherein there is a plurality of first regions within a matrix of the at least one second region.

10.~~11.~~ The method of any of claims 1 to 6~~9~~, wherein there is a plurality of second regions within a matrix of the at least one first region.

11.~~12.~~ A method of making a composite article, the method comprising:

providing a first molding tool having a first microstructured surface including a plurality of cavities;

at least partially filling the plurality of cavities with a radiation curable resin disposed on a first major surface of an overlay element;

exposing the radiation curable resin to a first, patterned irradiation to provide a partially cured composite comprising the overlay element adhered to a correspondingly patterned partially cured resin comprising at least one first region and at least one second region, wherein the at least one first region is irradiated by the first, patterned irradiation and the at least one second region is not irradiated by the first, patterned irradiation;

separating the partially cured composite from the molding tool, such that at least a portion of curable resin from the at least one second region remains in the molding tool, providing the separated partially cured composite with a surface that lacks microstructure in the at least one second region; and

exposing the partially cured composite that was separated from the molding tool to a second irradiation, to provide a composite article having a first microstructured surface and a differentially cured pattern therein.

12.~~13.~~ The method of claim 11~~12~~, further comprising providing a second molding tool having a second microstructured surface including a second plurality of cavities;

at least partially filling the second plurality of cavities with a second radiation curable resin disposed on a second major surface of the overlay element of the composite article having a first microstructured surface and a differentially cured pattern therein;

exposing the second radiation curable resin to a third irradiation, to provide an article having the first microstructured surface and the differentially cured pattern therein on the first major surface and a second microstructured surface on the second major surface; and

separating the article from the second molding tool.

13.~~14.~~ The method of any of claims 11~~12~~ or 12~~13~~, wherein the patterned irradiation comprises at least one of irradiating through transparent regions of a mask, guiding a beam of light, guiding a beam of electrons, or projecting a digital image.

14.~~15.~~ The method of any one of claims 11~~12~~ or 12~~13~~, wherein the overlay element comprises a material selected from the group consisting of polymeric film, paper, fabric, fiberglass, nonwovens, glass, and metal foil.

15.~~16.~~ The method of any one of claims 11~~12~~ or 12~~13~~, wherein the overlay element is transparent to the radiation used in at least one of the irradiations.

16.~~17.~~ The method of any one of claims 11~~12~~ or 12~~13~~, wherein the first molding tool is transparent to the patterned irradiation.

17.~~18.~~ The method of claim 16~~17~~, wherein the overlay element is opaque to the patterned irradiation.

18.~~19.~~ The method of any one of claims 11~~12~~ to 12~~18~~, further comprising adding a pigment to at least a portion of the at least one second region prior to exposing the partially cured composite that was separated from the molding tool to a second irradiation.

19.~~20.~~ A method of making a composite article, the method comprising:

providing a molding tool having a microstructured surface including a plurality of cavities;

at least partially filling the plurality of cavities with a radiation curable resin disposed on a major surface of an overlay element;

exposing the radiation curable resin to a patterned irradiation to provide a partially cured composite comprising the overlay element adhered to a correspondingly patterned partially cured

resin comprising at least one first region and at least one second region, wherein the at least one first region is irradiated by the patterned irradiation and the at least one second region is not irradiated by the patterned irradiation;

separating the partially cured composite from the molding tool; and

removing the radiation curable resin from the at least one second region to provide a composite article having a microstructured surface,

wherein the patterned irradiation comprises at least one of irradiating through transparent regions of a mask, guiding a beam of light, guiding a beam of electrons, or projecting a digital image.

~~21. The method of claim 20, wherein the patterned irradiation comprises at least one of irradiating through transparent regions of a mask, guiding a beam of light, guiding a beam of electrons, or projecting a digital image.~~

20.~~22.~~ The method of claim 19~~20~~, wherein the overlay element comprises a material selected from the group consisting of polymeric film, paper, fabric, fiberglass, nonwovens, glass, and metal foil.

21.~~23.~~ The method of claim 19~~20~~, wherein the overlay element is transparent to the patterned irradiation.

22.~~24.~~ The method of claim 19~~20~~, wherein the molding tool is transparent to the patterned irradiation.

23.~~25.~~ The method of claim 22~~24~~, wherein the overlay element is opaque to the patterned irradiation.

24.~~26.~~ A method of making a composite article, the method comprising:

providing a molding tool having a microstructured surface including a plurality of cavities;

at least partially filling the plurality of cavities with a first radiation curable resin;

contacting an overlay element to the first radiation curable resin;

exposing the first radiation curable resin to a patterned irradiation to provide a correspondingly patterned first partially cured resin comprising at least one first region and at least one second region, wherein the at least one first region is irradiated by the first, patterned irradiation and the at least one second region is not irradiated by the first, patterned irradiation;

exposing the first partially cured resin to a first blanket irradiation to provide a first further cured resin, wherein the first further cured resin is adhered to the overlay element;

separating at least a portion of the first further cured resin from the molding tool;

at least partially filling the plurality of cavities with a second radiation curable resin;

contacting the first further cured resin with the second radiation curable resin;

exposing the second radiation curable resin to a second patterned irradiation to provide a correspondingly patterned second partially cured resin comprising at least one third region and at least one fourth region, wherein the at least one third region is irradiated by the second, patterned irradiation and the at least one fourth region is not irradiated by the first, patterned irradiation;

exposing the second partially cured resin to a second blanket irradiation to provide a composite article wherein the second further cured resin is adhered to the first further cured resin and the first further cured resin is adhered to the overlay element; and

separating the composite article from the molding tool.

25.~~27.~~ A method of making a composite article, the method comprising:

providing a molding tool having a microstructured surface including a plurality of cavities;

partially filling the plurality of cavities with a first radiation curable resin;

exposing the first radiation curable resin to a patterned irradiation to provide a correspondingly patterned first partially cured resin comprising at least one first region and at least one second region, wherein the at least one first region is irradiated by the first, patterned irradiation and the at least one second region is not irradiated by the first, patterned irradiation;

exposing the first partially cured resin to a first blanket irradiation to provide a first further cured resin;

contacting a second radiation curable resin to the first further cured resin in the plurality of cavities;

contacting an overlay element to the second radiation curable resin;

exposing the second radiation curable resin to a second patterned irradiation to provide a correspondingly patterned second partially cured resin comprising at least one third region and at least one fourth region, wherein the at least one third region is irradiated by the second, patterned irradiation and the at least one fourth region is not irradiated by the first, patterned irradiation;

exposing the second partially cured resin to a second blanket irradiation to provide a composite article wherein the first further cured resin is adhered to the second further cured resin and the second further cured resin is adhered to the overlay element; and

separating the composite article from the molding tool.