CLAIMS

1. A waveguide combiner, comprising:

a substrate having a top surface, a bottom surface, and an edge arrangement, the edge arrangement having at least a first angled surface,

wherein the first angled surface comprises an angle of about 0.1° to about 90° relative to the top surface or the bottom surface of the substrate;

a plurality of structures disposed over the substrate; and

an anti-reflection composition deposited on the first angled surface of the edge arrangement.

2. The waveguide combiner of claim 1, wherein the first angled surface extends about 0.1 mm to about 10 mm.

3. The waveguide combiner of claim 1, wherein the edge arrangement has a first angled surface and a second angled surface.

4. The waveguide combiner of claim 3, wherein the second angled surface extends about 0.1 mm to about 10 mm.

5. The waveguide combiner of claim 3, wherein the first angled surface is relative to the top surface and the second angled surface is relative to the bottom surface.

6. The waveguide combiner of claim 3, wherein the edge arrangement has a first angled surface, a second angled surface, and a third angled surface.

7. The waveguide combiner of claim 6, wherein the third angled surface extends about 0.1 mm to about 10 mm.

8. The waveguide combiner of claim 6, wherein the first angled surface is relative to the top surface, the second angled surface is relative to the bottom surface, and the third angled surface is relative to the first angled surface or second angled surface.

9. The waveguide combiner of claim 8, wherein the third angled surface intersects the first angled surface and the second angled surface.

10. A waveguide combiner, comprising:

a substrate having a top surface, a bottom surface, and an edge arrangement, the edge arrangement having a first angled surface and a second angled surface,

wherein the first angled surface comprises an angle of about 0.1° to about 90° relative to the top surface of the substrate, and

wherein the second angled surface comprises an angle of about 0.1° to about 90° relative to the bottom surface of the substrate;

a plurality of structures disposed over the substrate; and

an anti-reflection composition selectively deposited on the first angled surface and the second angled surface of the edge arrangement.

11. The waveguide combiner of claim 10, wherein the second angled surface extends about 0.1 mm to about 10 mm.

12. The waveguide combiner of claim 10, wherein the edge arrangement has a first angled surface, a second angled surface, and a third angled surface.

13. The waveguide combiner of claim 12, wherein the third angled surface extends about 0.1 mm to about 10 mm.

14. The waveguide combiner of claim 12, wherein the first angled surface is relative to the top surface, the second angled surface is relative to the bottom surface, and the third angled surface is relative to the first angled surface or second angled surface.

15. The waveguide combiner of claim 14, wherein the third angled surface intersects the first angled surface and the second angled surface.

16. A waveguide combiner, comprising:

a substrate having a top surface, a bottom surface, and an edge arrangement, the edge arrangement having a first angled surface, a second angled surface, and a third angled surface;

wherein the first angled surface comprises an angle of about 0.1° to about 90° relative to the top surface of the substrate,

wherein the second angled surface comprises an angle of about 0.1° to about 90° relative to the bottom surface of the substrate, and

wherein the third angled surface comprises an angle of about 0.1° to about 90° relative to the first angled surface or the second angled surface;

a plurality of structures disposed over the substrate; and

an anti-reflection composition selectively deposited on the first angled surface, the second angled surface, and the third angled surface of the edge arrangement.

17. The waveguide combiner of claim 16, wherein the third angled surface extends about 0.1 mm to about 10 mm, and wherein the third angled surface intersects the first angled surface and the second angled surface.

18. A method, comprising:

producing a formulation;

applying the formulation on a first angled surface of a waveguide combiner using an edge tool, wherein the first angled surface comprises an angle of about 0.1° to about 90° relative to a top surface or a bottom surface of a substrate of the waveguide combiner; and

curing the formulation to form an anti-reflection composition.

19. The method of claim 18, further comprising applying the formulation on a second angled surface of the waveguide combiner, wherein the second angled surface comprises an angle of about 0.1° to about 90° relative to the bottom surface of the substrate.

20. The method of claim 19, further comprising applying the formulation on a third angled surface of the waveguide combiner, wherein the third angled surface comprises an angle of about 0.1° to about 90° relative to the first angled surface or the second angled surface.