[0004] In ~~one aspect of the present invention~~the present disclosure, there is provided a UV stable assembly comprising:

a first layer that absorbs at least 90 percent of incident UV light over a wavelength range from at least 300 nanometers to 400 nanometers;

a multi-layer optical film comprising a plurality of first and second optical layers that reflects at least 50 percent of incident light over at least 30 nanometer wavelength in a wavelength range from at least 430 nanometers to 500 nanometers, wherein the multi-layer optical film is essentially free of PEN; and

a material that absorbs at least some percent of incident light over a wavelength range from at least 430 nanometers to 500 nanometers,

wherein the assembly has, in order, the first layer that absorbs at least 90 percent of incident UV light, the multi-layer optical film comprising a plurality of first and second optical layers that reflects at least 50 percent of incident light over a wavelength range from at least 430 nm to 500 nm, and the material that absorbs at least some incident light over a wavelength range of 430 nm to 500 nm. In some embodiments, at least one of the first or second layers of the multi-layer optical film comprises a UV absorber.

[0005] In ~~another~~ an aspect of the present invention, there is provided an assembly comprising:

a multi-layer optical film comprising at least first and second optical layers reflecting at least 50 percent of incident light over at least 30 nanometer wavelength in a wavelength range from at least 430 nanometers to 500 nanometers, wherein the plurality of first and second optical layers is essentially free of PEN; and

a multi-layer optical film comprising at least one layer comprising PEN.

In some embodiments, at least one layer of the assembly comprises a UV absorber.

What is claimed is:

1. A UV-stable assembly comprising

a first layer that absorbs at least 90 percent of incident UV light over a wavelength range from at least 300 nanometers to 400 nanometers;

a multi-layer optical film comprising a plurality of first and second optical layers that reflects at least 50 percent of incident light over at least 30 nanometer wavelength in a wavelength range from at least 430 nanometers to 500 nanometers, wherein the multi-layer optical film is essentially free of PEN; and

a material that absorbs at least some percent of incident light over a wavelength range from at least 430 nanometers to 500 nanometers,

wherein the assembly has, in order, the first layer that absorbs at least 90 percent of incident UV light, the multi-layer optical film comprising a plurality of first and second optical layers that reflects at least 50

~~percent of incident light over a wavelength range from at least 430 nm to 500 nm, and the material that absorbs at least some incident light over a wavelength range from at least 430 nm to 500 nm.~~

~~2. The assembly of claim 1, wherein the multi-layer optical film comprises a UV absorber.~~

~~3. The assembly of either claim 1 or 2 having a UV transmission band edge in a range from 10 to 90 percent transmission spanning less than 20 nanometers.~~

~~4. The assembly of any of claims 1 to 3, wherein the at least first optical layer comprises PMMA, a blend of PMMA and PVDF, PC, PET, COC, or TPU, and wherein the second optical layer comprises THV, PMMA, CoPMMA, or a blend of PVDF and PMMA.~~

~~5. A light assembly comprising the assembly of any claims 1 to 4.~~

~~6. An LED comprising the assembly of any of claims 1 to 4.~~

CLAIMS

17. An assembly comprising:

a multi-layer optical film comprising at least first and second optical layers reflecting at least 50 percent of incident light over at least 30 nanometer wavelength in a wavelength range from at least 430 nanometers to 500 nanometers, wherein the plurality of first and second optical layers is essentially free of PEN; and

a multi-layer optical film comprising at least one layer comprising PEN.

28. The assembly of claim 71, wherein the multi-layer optical film comprising at least the first and second optical layers comprises a UV absorber.

39. The assembly of any either claim 27 or 38 having a UV transmission band edge in a range from 10 to 90 percent transmission spanning less than 20 nanometers.

410. The assembly of any of claims 17 to 39, wherein the first optical layers of the multi-layer optical film comprise PMMA, a blend of PMMA and PVDF, PC, PET, COC, or TPU, and wherein the second optical layers of the multi-layer optical film comprise THV, PMMA, CoPMMA, or a blend of PVDF and PMMA.

511. An LED comprising the assembly of any of claims 17 to 410.

612. A light guide comprising the assembly of any of claims 17 to 410.

713. Sunglasses comprising the assembly of any of claims 17 to 410.

814. A wavelength selective solar concentrating mirror comprising the assembly of any of claims 17 to 410.

915. A broadband solar concentrating mirror comprising the assembly of any of claims 17 to 410.

1016. The assembly of any claims 17 to 410 further comprising a reflective polarizer.