ASYMMETRIC PATTERNED REFLECTIVE COATING

CROSS-REFERENCE TO RELATED APPLICATIONS

[0001] This application claims priority to U.S. Patent Application Number 18/329,661, filed June 6, 2023, and claims the benefit of U.S. Provisional Patent Application Number 63/349,652, filed June 7, 2022, the disclosures of which are hereby incorporated by reference in their entirety.

BACKGROUND OF THE INVENTION

Field of the Invention

[0002] This invention relates generally to reflective coatings and articles coated with reflective coatings.

Technical Considerations

[0003] Reflective coatings are known in the field of architectural transparencies. Various methods are known for imparting a pattern onto a transparency or coating which is visible when viewing the transparency. However, due to the light transmittance of the transparency, the pattern is visible when viewed from both directions. This is not advantageous for many transparency applications because the pattern is only desired to be visible from one direction, with the view through the transparency from a second direction being unobstructed.

SUMMARY

[0004] In one aspect of the present disclosure, a coated article includes: a substrate having a first side and a second side opposite the first side; and a patterned coating over at least a portion of the second side of the substrate, where the patterned coating includes: a first dielectric layer over at least a portion of the second side of the substrate; an absorbing layer over a first portion of the first dielectric layer and including a first reflected aesthetic, and absent over a second portion of the first dielectric layer and including a second reflected aesthetic; and a second dielectric layer over at least a portion of the absorbing layer; where a contrast between the first reflected aesthetic and the second reflected aesthetic forms a pattern; and where the contrast between the first reflected aesthetic and the second reflected aesthetic is greater when viewing the coated article from a first direction, as compared to viewing the coated article from a second direction.

[0005] Various non-limiting examples of the present invention will now be described and set forth in the following numbered clauses:

[0006] Clause 1: A coated article comprising: a substrate having a first side and a second side opposite the first side; and a patterned coating over at least a portion of the second side