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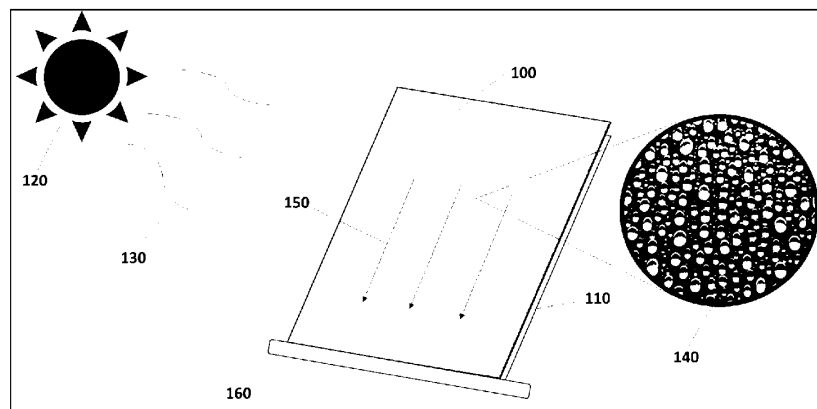


Figure 1

(57) Abstract: Composite coatings that passively cool when exposed to the sky are provided. The composite coatings are suitable for increasing atmospheric condensation on a surface of a substrate. In particular, the composite coatings may be suitable for capturing atmospheric water. Also provided are methods for producing the composite coatings, methods for coating the surface of substrates with the composite coatings, methods for condensing and collecting atmospheric water, and systems for collecting condensed atmospheric water.

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