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(54) **ILLUMINATION DEVICE**

(57) Artificial illumination device for reproducing, in an indoor environment, sunlight and skylight, the artificial illumination device comprising:
a broad-band artificial light source that emits light of broad visible spectrum; and
a chromatic diffuser located downstream of the broad-band artificial light source, wherein the chromatic diffuser is configured to generate the skylight by scattering blue light, which is dominant in skylight, and to generate the sunlight by transmitting the remaining light;
wherein the chromatic diffuser is configured to emit the skylight and the sunlight in light cones of different aperture, a narrow inner cone of sunlight and a wider cone of skylight such that the skylight illuminates a shadow formed by an object with respect to the sunlight, and an outer area outside the light cone of the sunlight, which is not illuminated by the sunlight.

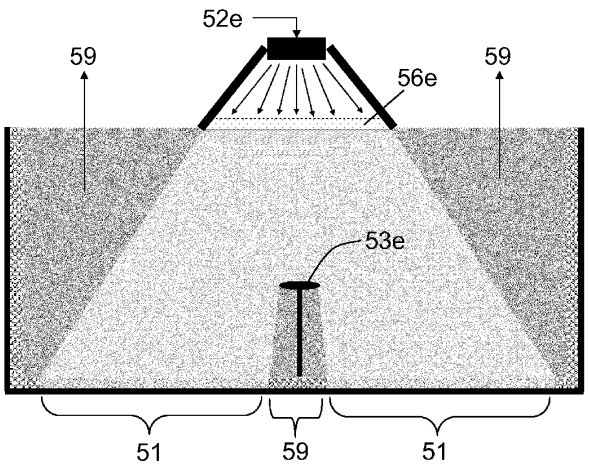

FIG. 5E

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