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(54) Title: ARTIFICIAL LIGHTING SYSTEM FOR SIMULATING A NATURAL LIGHTING

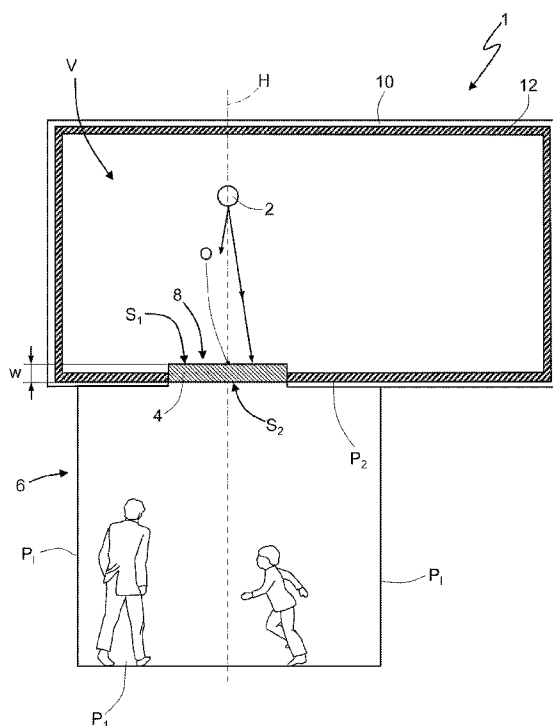


Fig.1

(57) Abstract: A lighting system for illuminating (1) an environment (6) with a lighting that simulates natural lighting, which includes: a first light source (2) which emits a beam of visible light; a diffused-light generator (4; 68) delimited by an inner surface (S_1, S_3), which receives the light beam, and an outer surface (S_2), the diffused-light generator being at least partially transparent to the light beam. The diffused-light generator transmits at least part of the light beam and emits through the outer surface, visible diffused light, the correlated color temperature (CCT) of the transmitted light being lower than the CCT of the visible diffused light. The lighting system includes a dark structure (10, 12; 300; 310) which is optically coupled to the environment via the diffused-light generator and provides a substantially uniform background to the first light source (2).



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