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(54) Title: A WAVEGUIDE STRUCTURE AND A METHOD OF COUPLING LIGHT

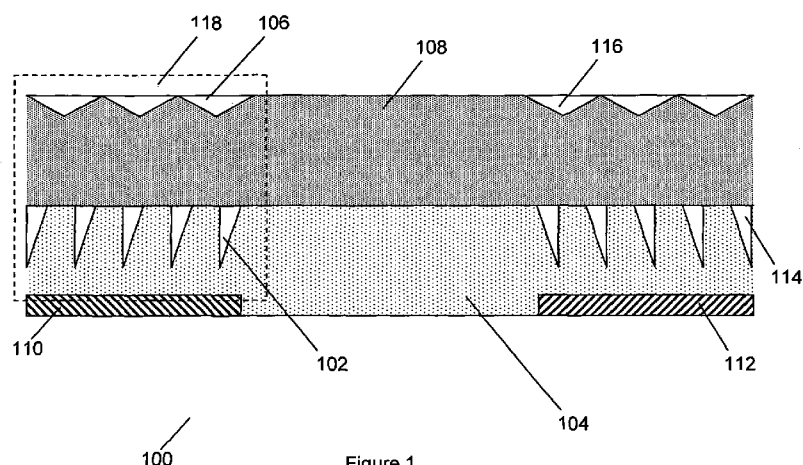


Figure 1

(57) Abstract: A planar waveguide structure, a method of coupling light into or out of a planar waveguide structure, a method of forming a planar waveguide structure and a method of coupling light out of a planar waveguide structure are provided. The planar waveguide structure comprises an array of first light reflective structures formed in a first medium of the planar waveguide structure, each first light reflective structure having a first surface with a first angle θ_1 relative to a longitudinal plane of the planar waveguide structure for reflecting light into a second medium of the planar waveguide structure; an array of second light reflective structures formed in the second medium, each second light reflective structure having a second surface with a second angle θ_2 relative to the longitudinal plane of the planar waveguide structure; wherein the second angle θ_2 and the first angle θ_1 are inter-related for propagating light via internal reflection in the second medium.

