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(54) **MULTI-AXIS GRADED-INDEX PHOTONIC COUPLING**

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(58) **Field of Classification Search**

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See application file for complete search history.

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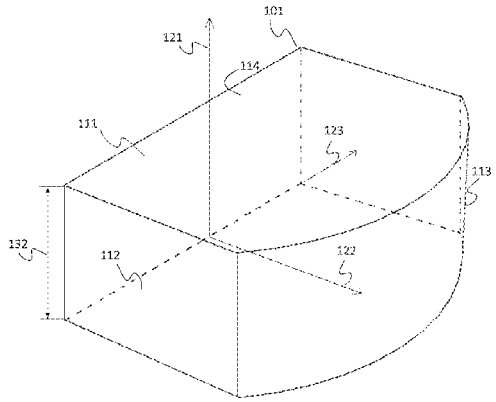
(57) **ABSTRACT**

An optical coupling may involve orienting a waveguide and a lens such that light rays are focused on a surface. The lens may involve the use of a material having a variable refractive index to focus rays of light along first axis and a curved surface to focus the rays of light along a second axis.

15 Claims, 6 Drawing Sheets