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(54) Title: MULTI-FUNCTION INTERACTIVE COMMUNICATIONS SYSTEM WITH CIRCULARLY/ELLIPTICALLY POLARIZED SIGNAL TRANSMISSION AND RECEPTION		
(57) Abstract <p>A communications system that uses electromagnetic waves. The communications system preferably operates in the millimeter-wave frequencies, and provides relatively high signal restoration and isolation. The communications system can use polarization diversity to increase the capacity of a channel. Isolation and restoration features in the transceivers eliminate or reduce the effects of precipitation and/or reflection and diffraction from objects, and thus is well-suited for an urban environment.</p> 		