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(54) Title: TUNABLE MICROWAVE/MMW REFLECTOR

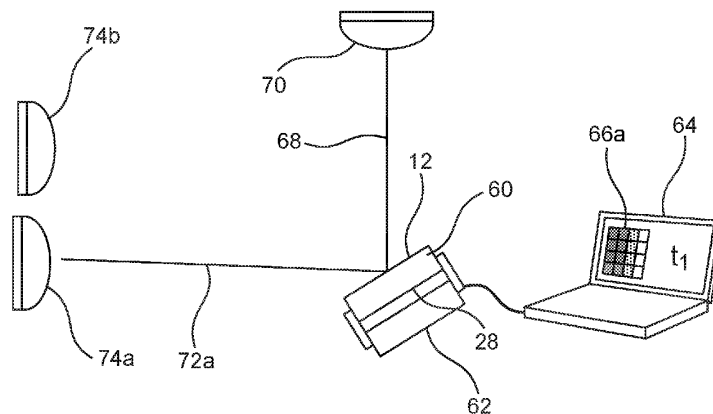


Figure 7A

(57) Abstract: Disclosed are a method of reflecting a microwave/MMW beam in a desired direction with a reflector that comprises an electromagnetic metasurface and also to a microwave/MMW reflector. In some embodiments, the reflector is tunable by projecting light (in some embodiments, the projected light constituting an image) on a portion of a reflector that includes light-sensitive components. The projecting of the light controllably sets a value of an electrical property of at least one of the light-sensitive components, where the values of the electrical property of the light-sensitive components collectively determine the phase-shift that the metasurface induces in an incident microwave/MMW beam which induced phase-shift determines the direction in which the beam is reflected.

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