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Patent Department, 6155 El Camino Real, Carlsbad, California 92009 (US).

(74) Agent: PUTNAM, Jonathan et al.; Viasat, Inc., Patent Department, 6155 El Camino Real, Carlsbad, California 92009 (US).

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(71) Applicant: VIASAT, INC. [US/US]; Patent Department, 6155 El Camino Real, Carlsbad, California 92009 (US).

(72) Inventors: MENDELSON, Aaron; Viasat, Inc., c/o Patent Department, 6155 El Camino Real, Carlsbad, California 92009 (US). RUNYON, Donald; Viasat, Inc., c/o

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(54) Title: COVERAGE AREA ADJUSTMENT TO ADAPT SATELLITE COMMUNICATIONS

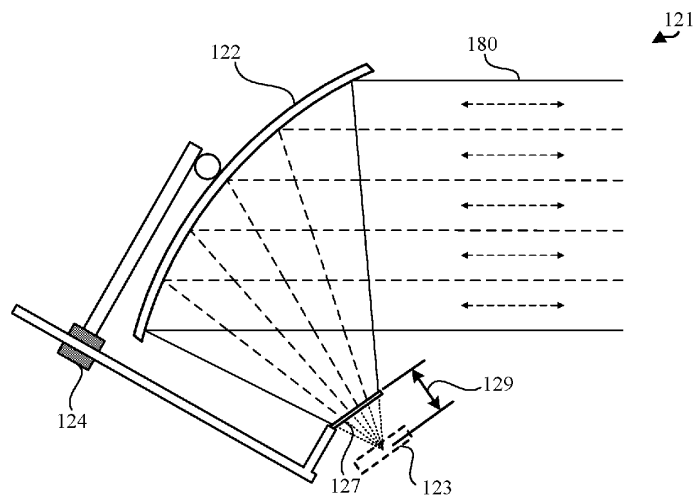


FIG. 1B

(57) Abstract: The described features generally relate to adjusting a native antenna pattern of a satellite to adapt communications via the satellite. For example, a communications satellite may include an antenna having a feed array assembly, a reflector, and a linear actuator coupled between the feed array assembly and the reflector. The feed array assembly may have a plurality of feeds for communicating signals associated with a communications service, and the reflector may be configured to reflect the signals transmitted between the feed array assembly and one or more target devices. The linear actuator may have an adjustable length, or otherwise provide an adjustable position between the feed array assembly and the reflector. By adjusting the position of the feed array assembly relative to the reflector, the communications satellite may provide a communications service according to a plurality of native antenna patterns.

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