

FIG. 1
PRIOR ART
Satellite in LEO polar orbit

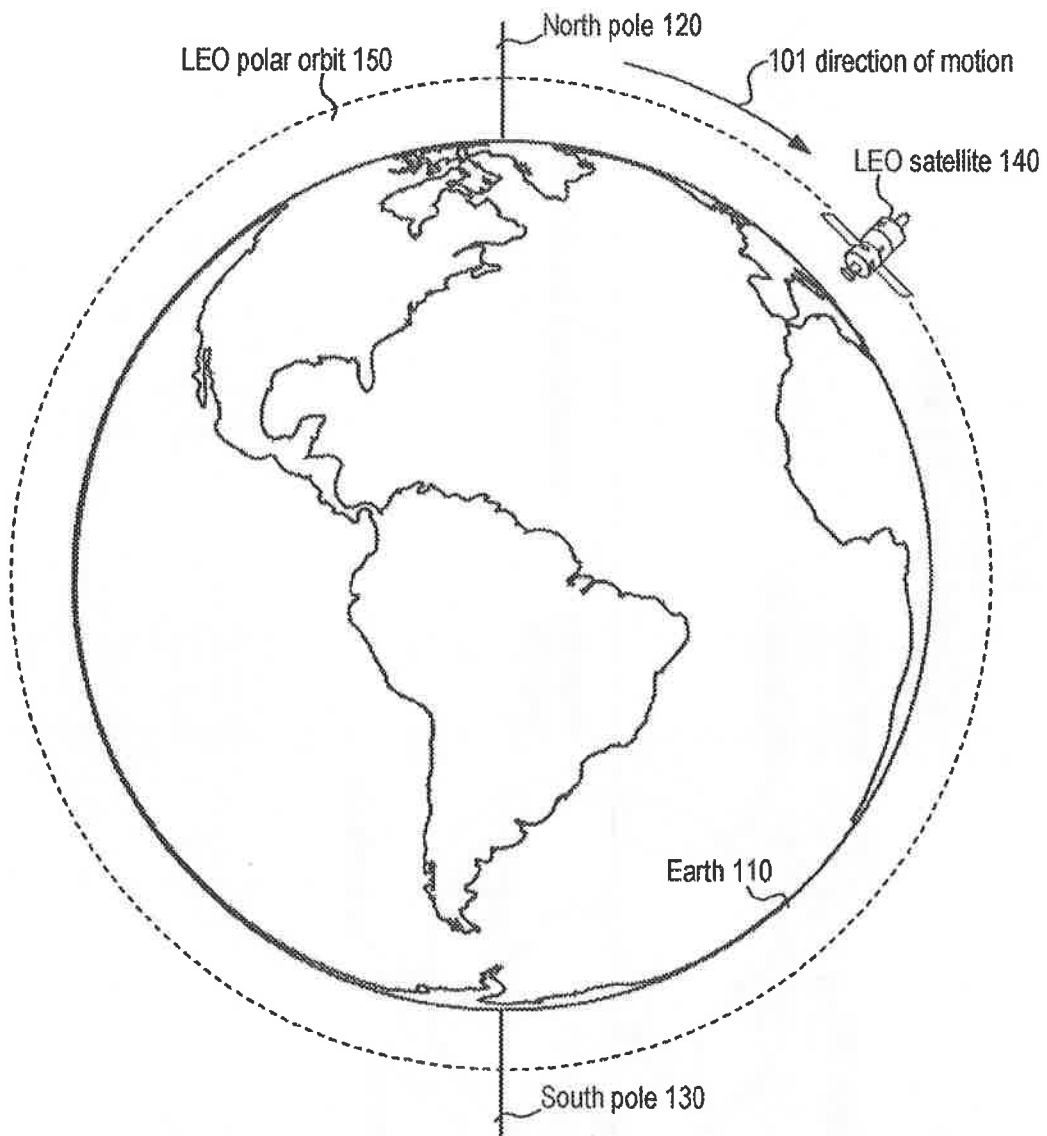


FIG. 2

PRIOR ART

LEO satellite and GEO satellite

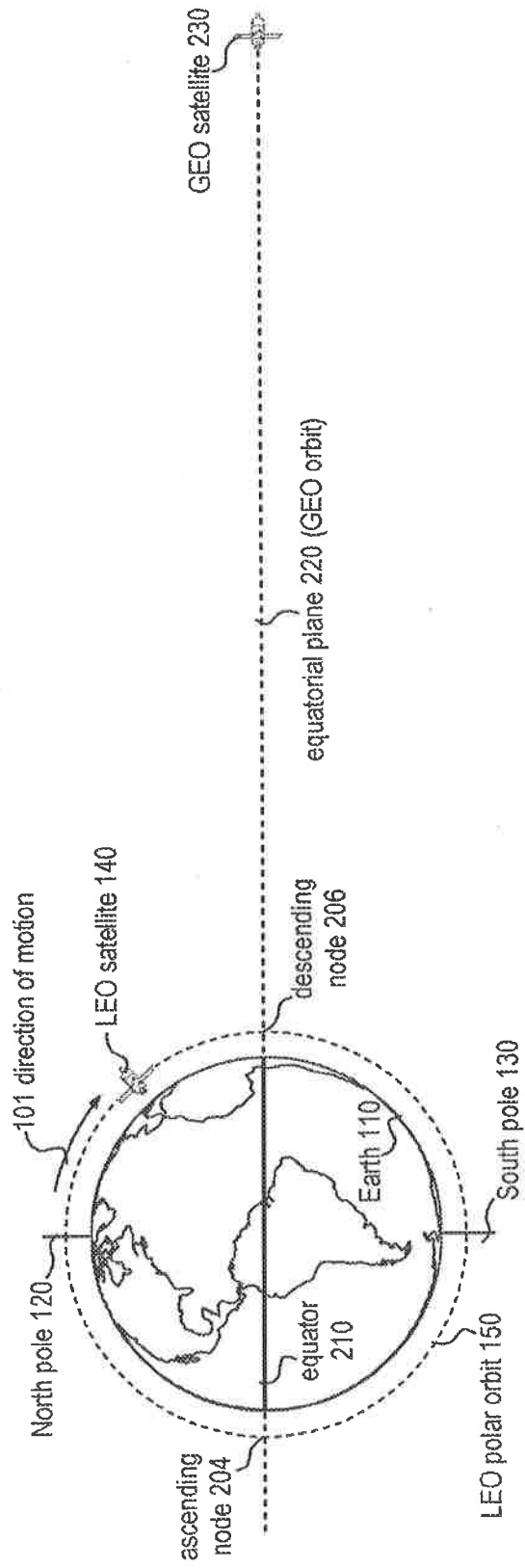


FIG. 3
PRIOR ART
Radio transmissions from LEO satellite

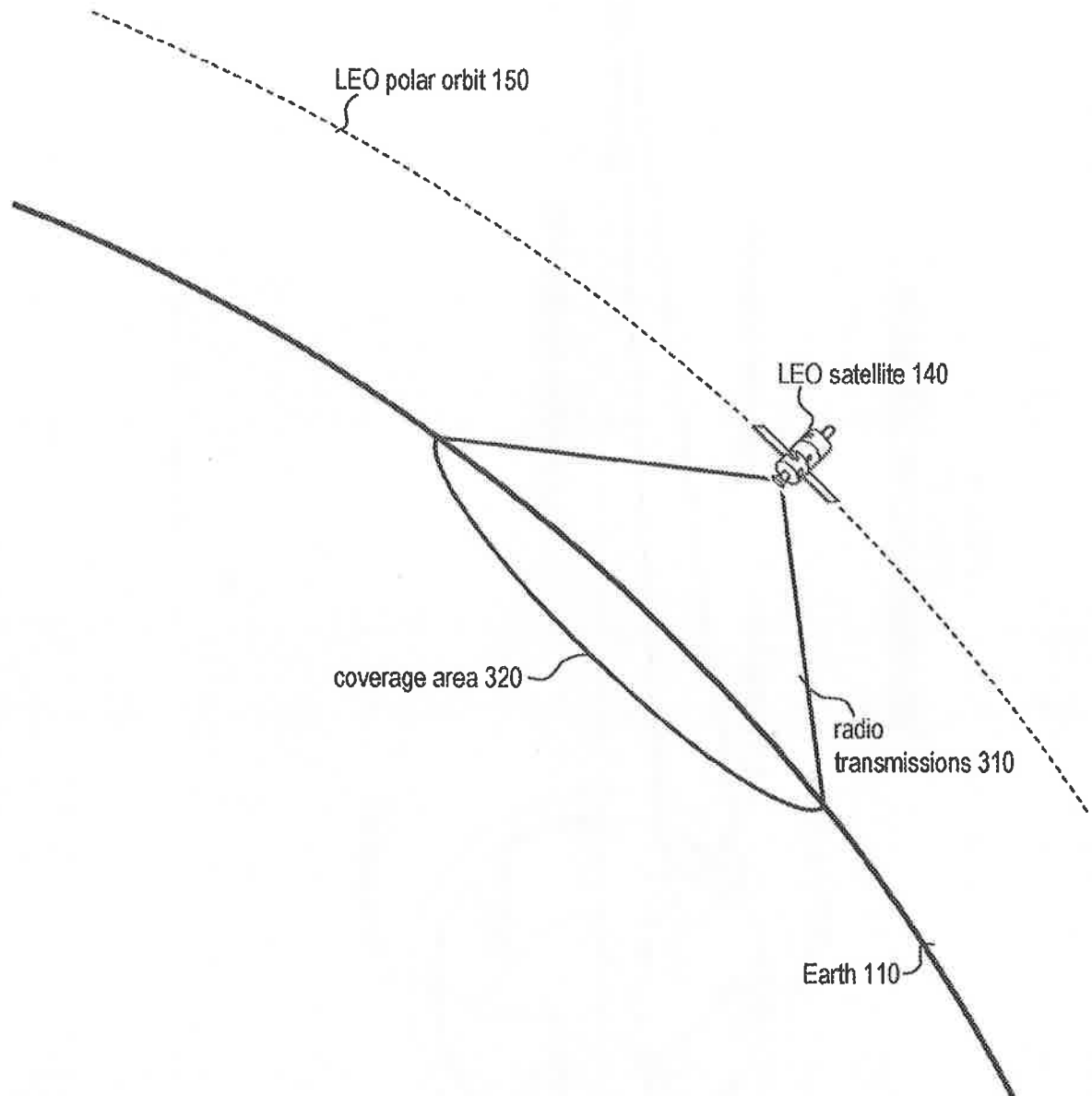


FIG. 4
PRIOR ART
Radio transmissions from GEO satellite

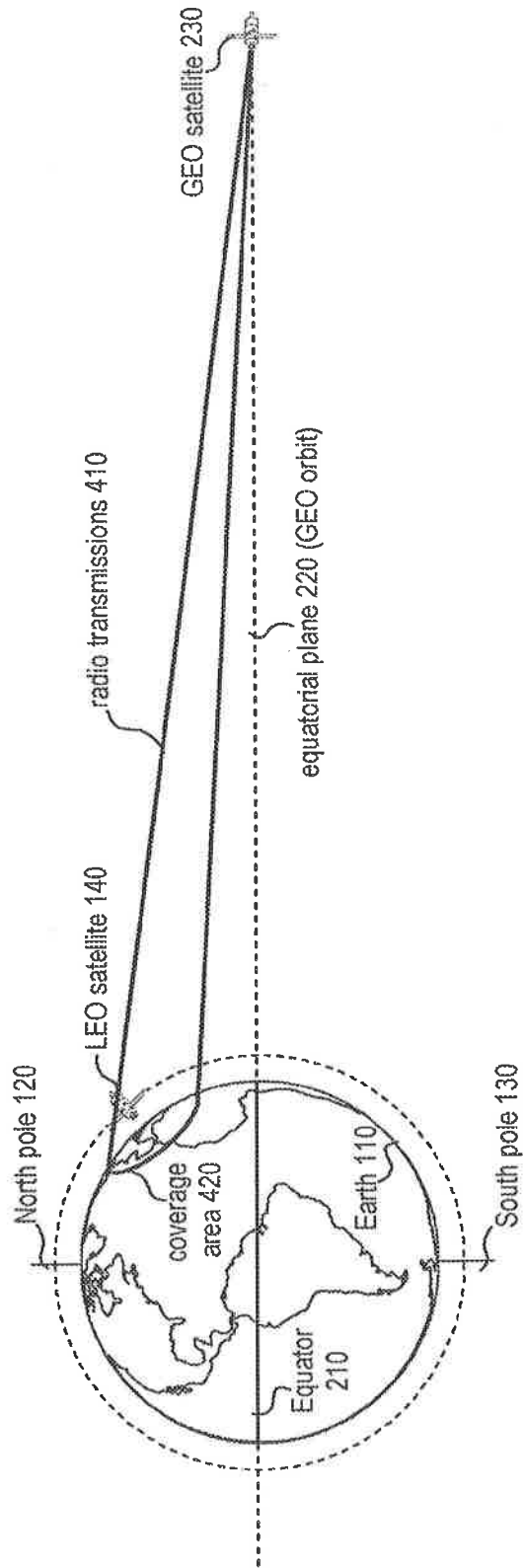


FIG. 5
PRIOR ART
Radio interference between LEO satellite and GEO satellite

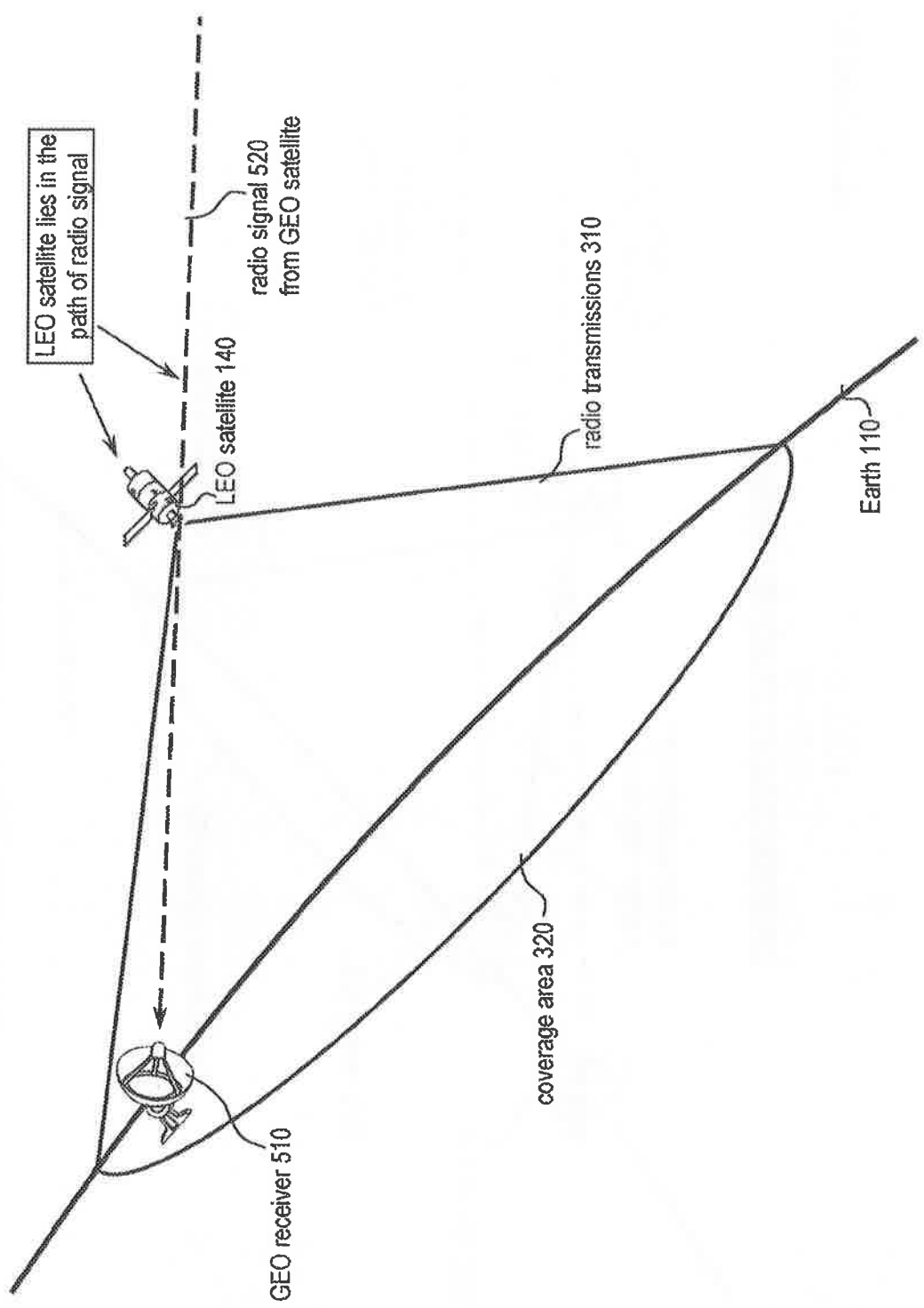


FIG. 6

PRIOR ART

Interference mitigation via reduced coverage

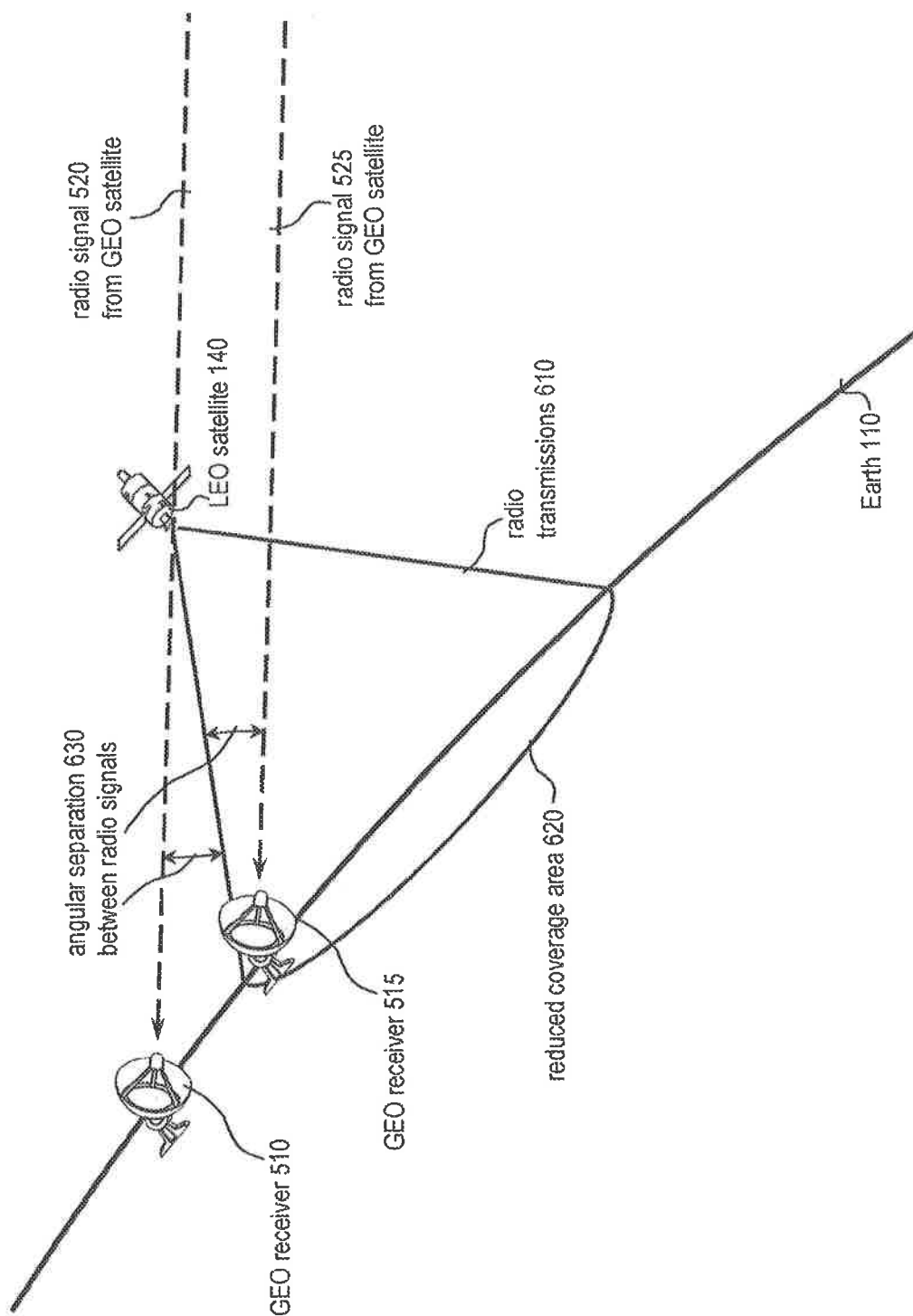
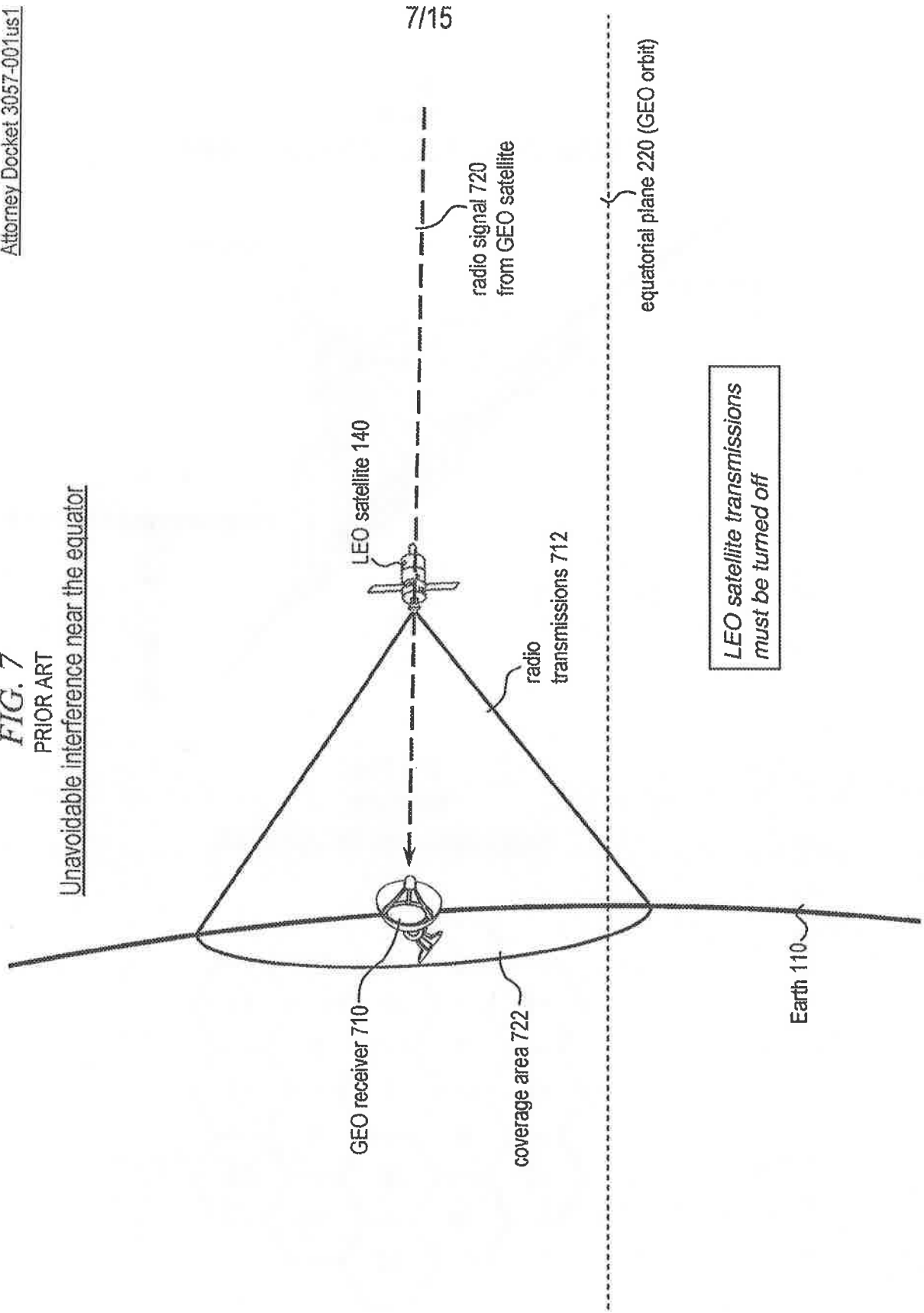


FIG. 7

PRIOR ART

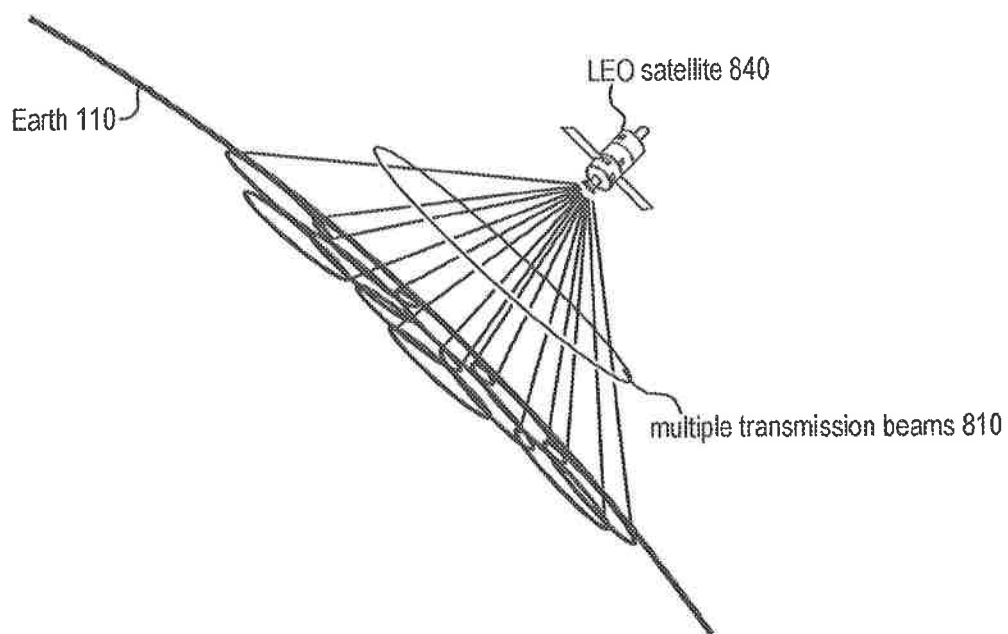
Unavoidable interference near the equator



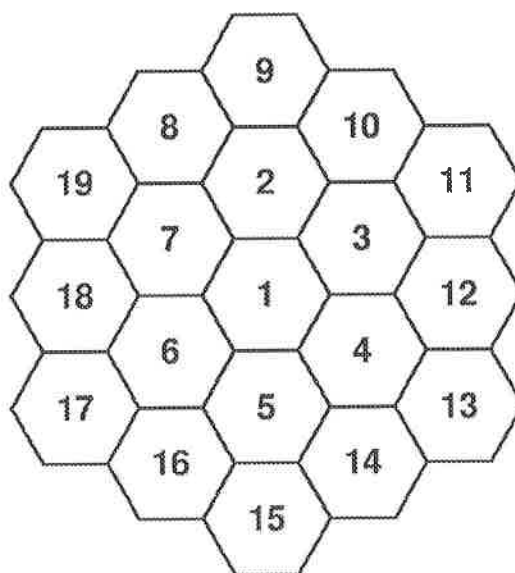
LEO satellite transmissions
must be turned off

FIG. 8

PRIOR ART

Multiple-beam transmission from LEO satellite**FIG. 9**

PRIOR ART

Multiple-beam coverage pattern 900

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FIG. 10
Interference mitigation via satellite tilting

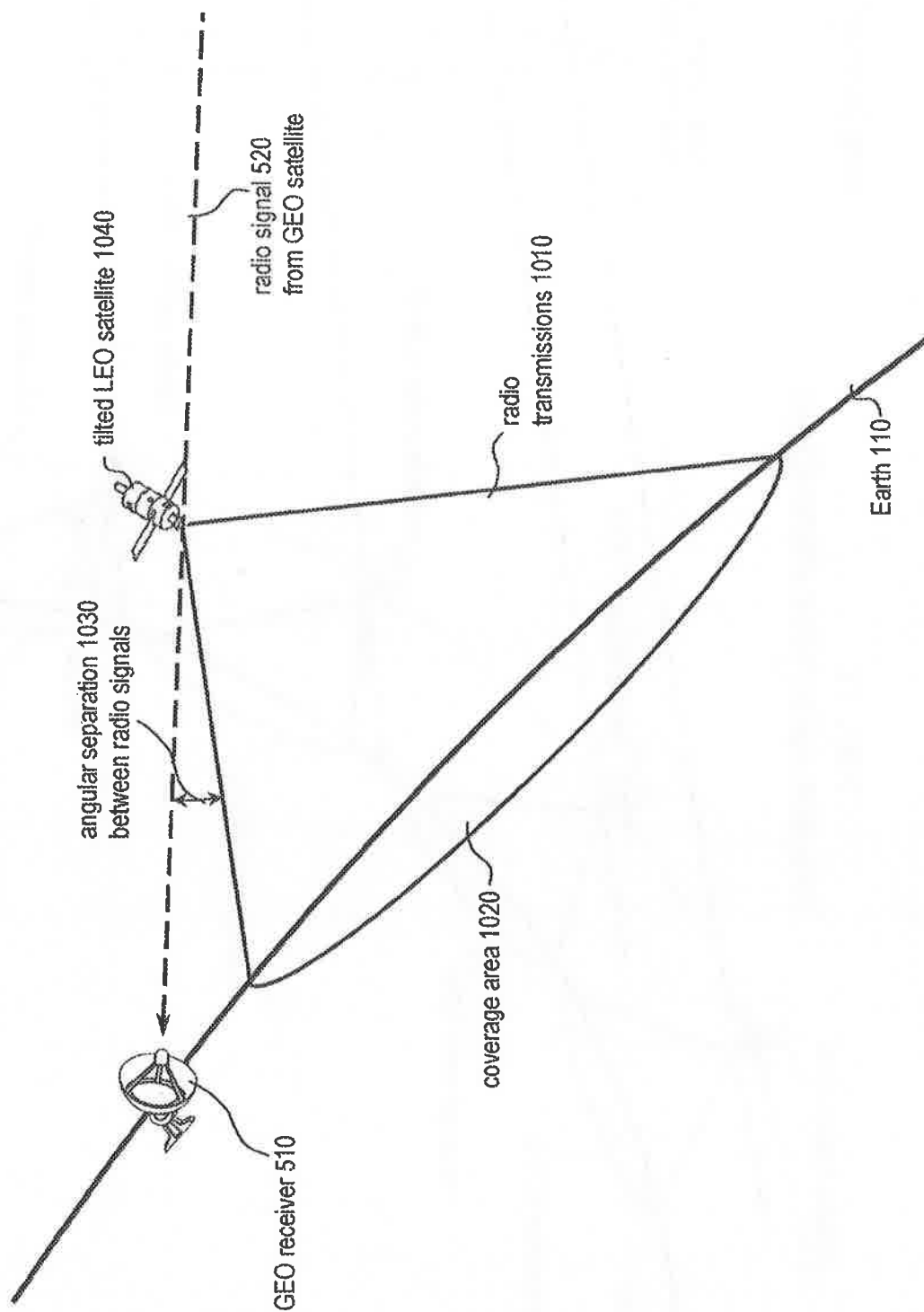


FIG. 11

Progressive satellite tilting at different latitudes

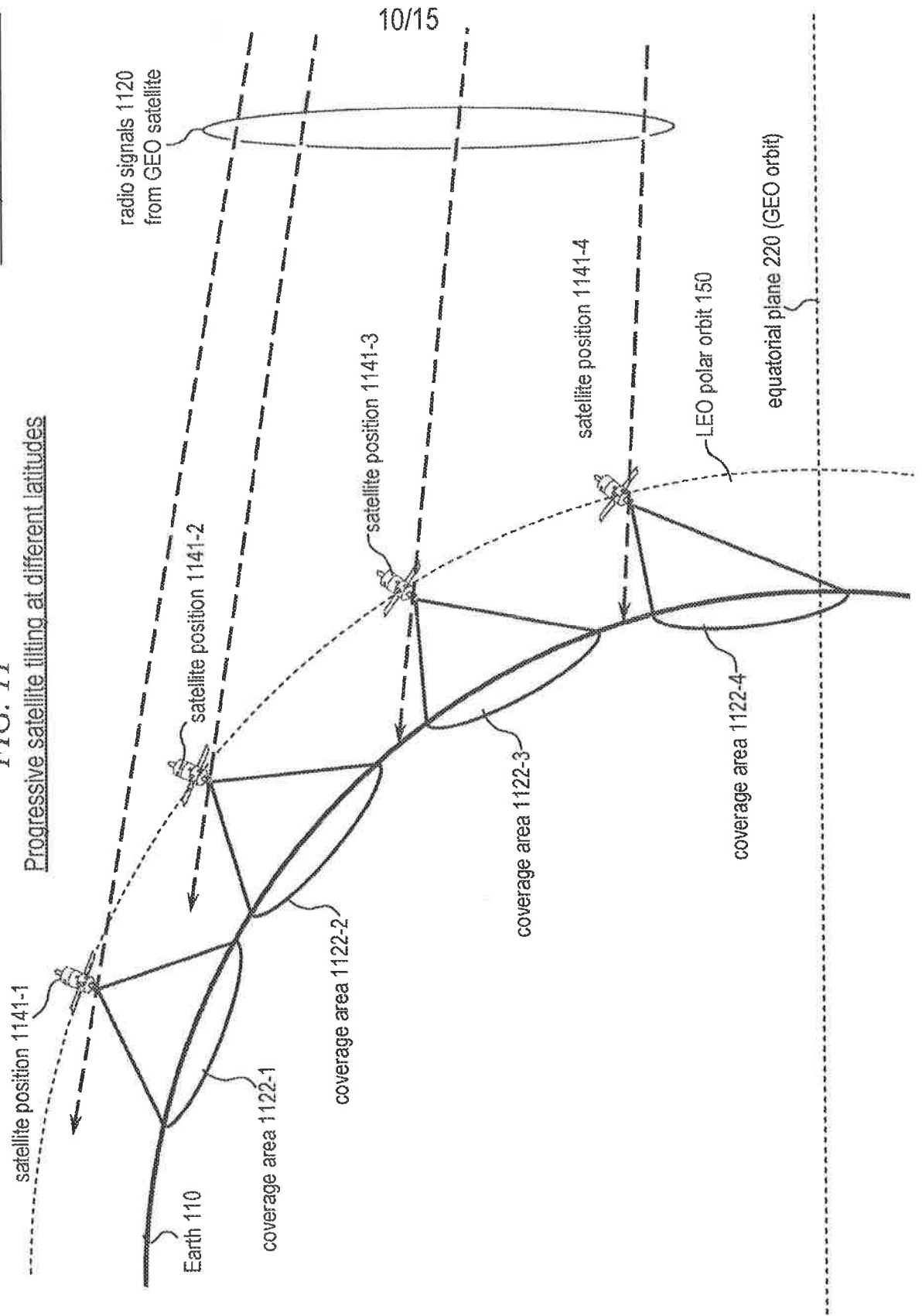


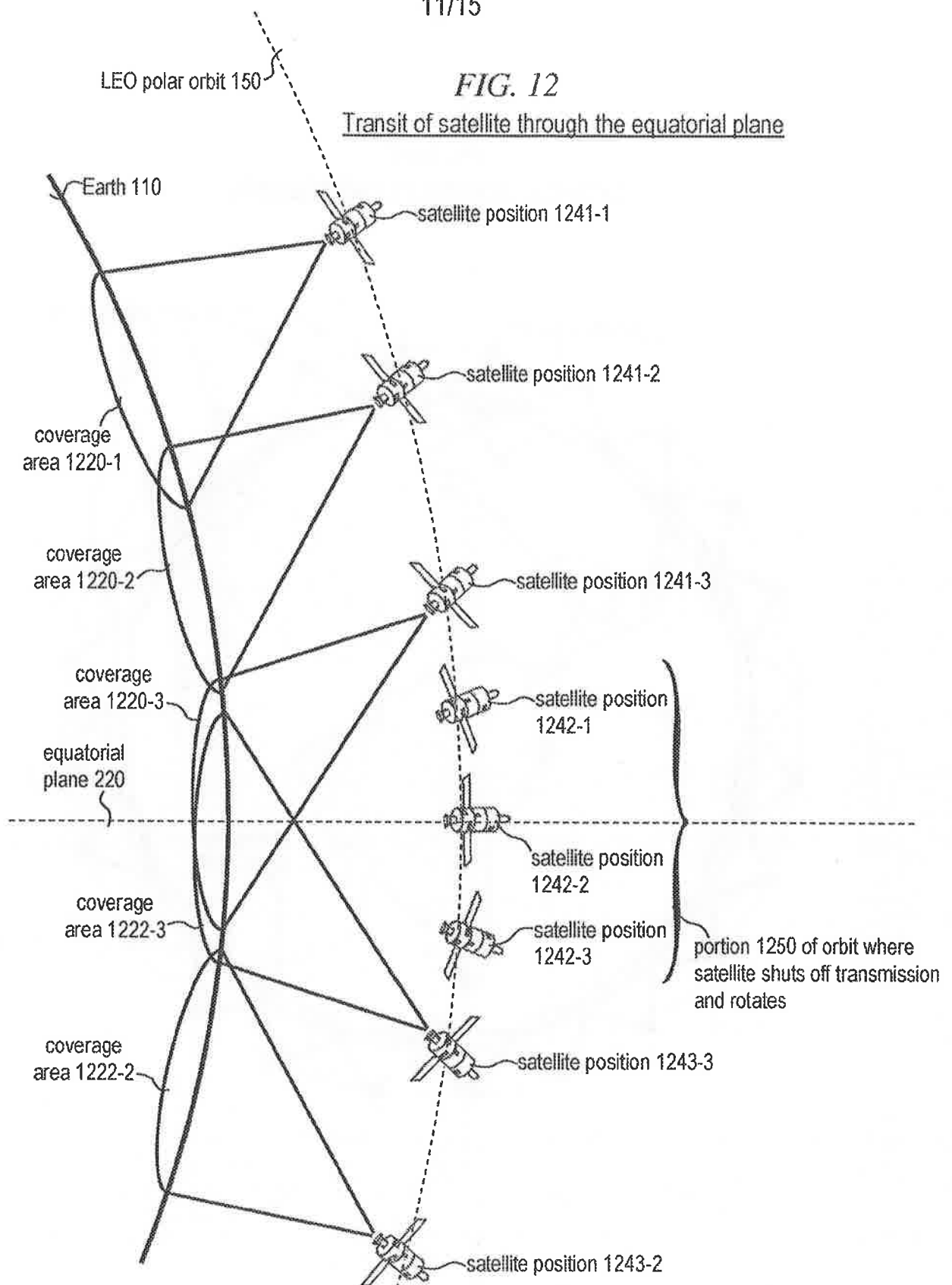
FIG. 12Transit of satellite through the equatorial plane

FIG. 13

PRIOR ART

Continuous coverage via multiple satellites

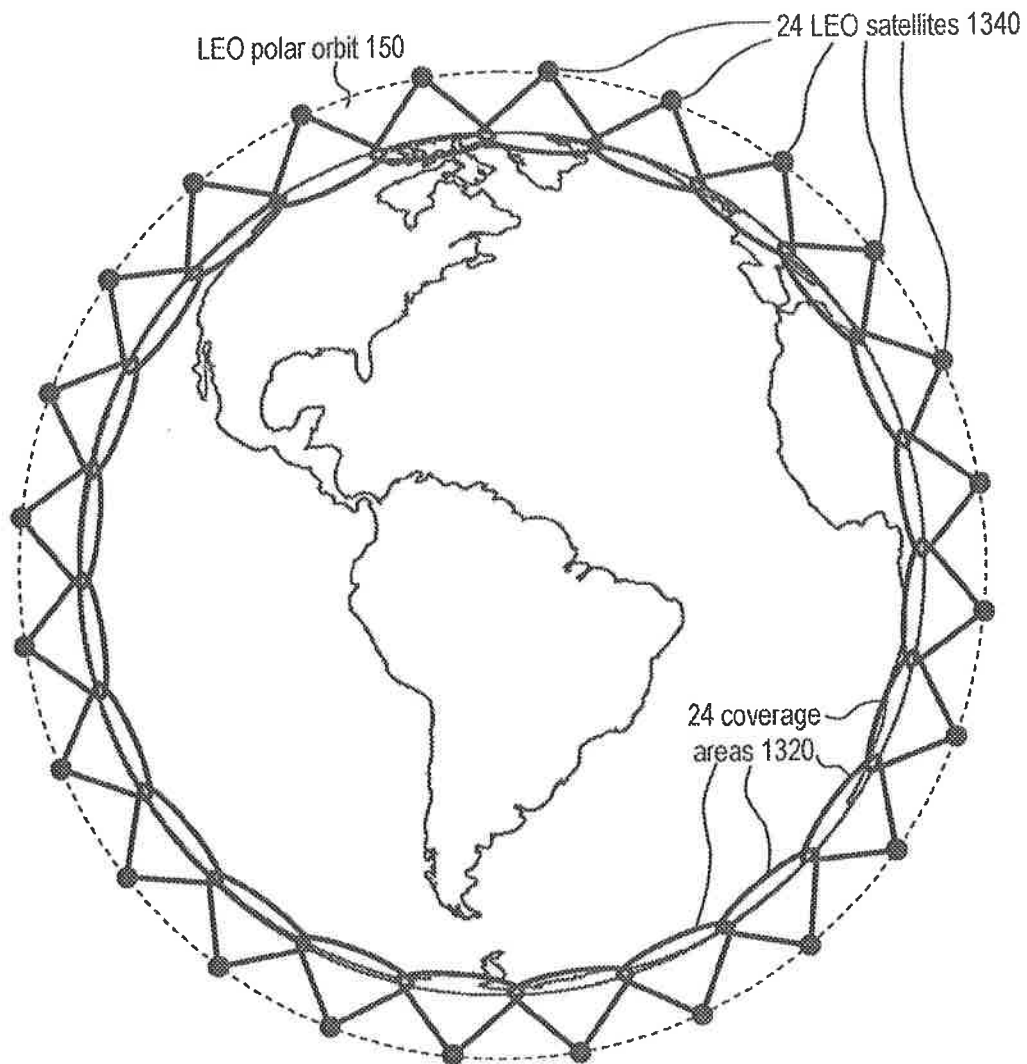
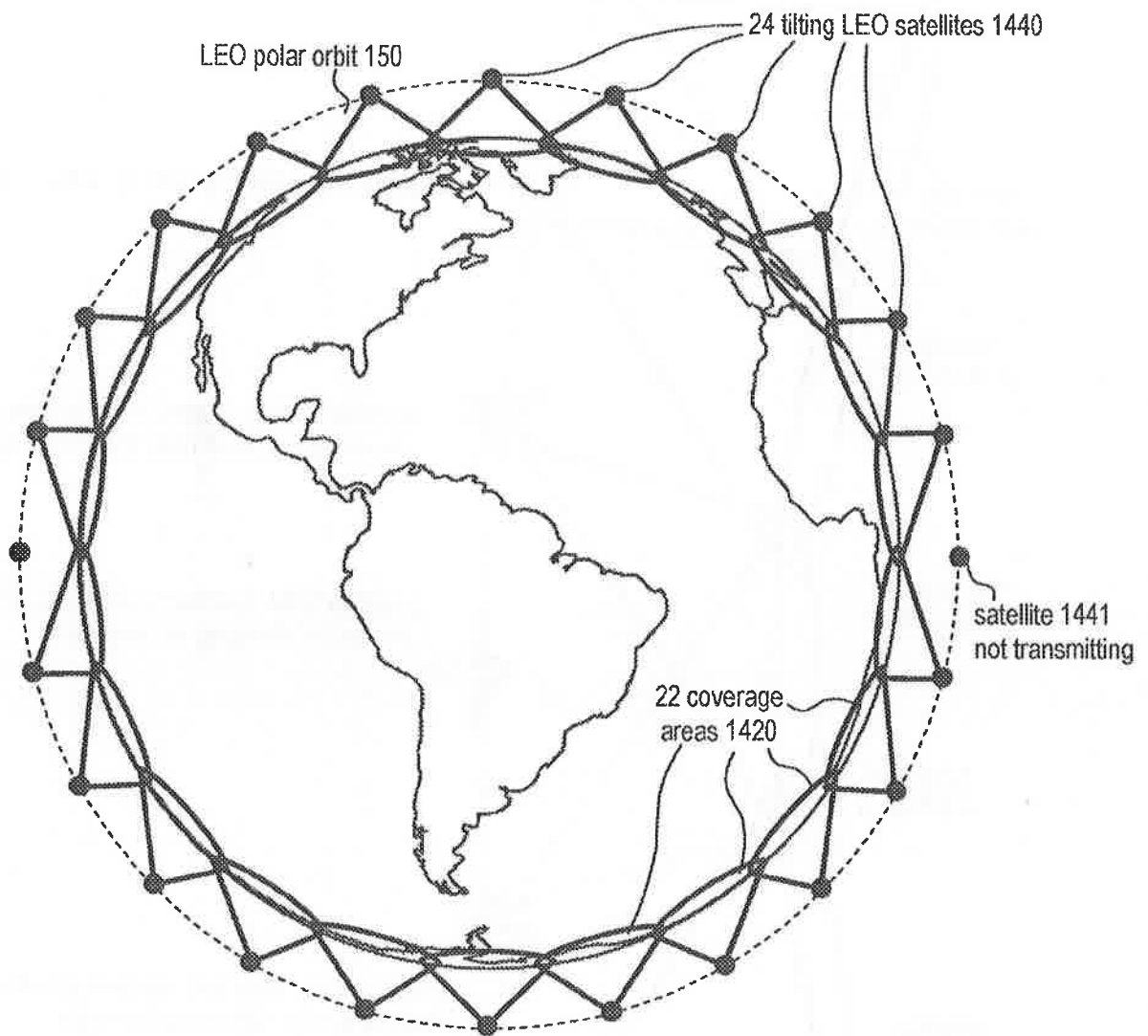


FIG. 14

Continuous coverage via multiple *tilting* satellites



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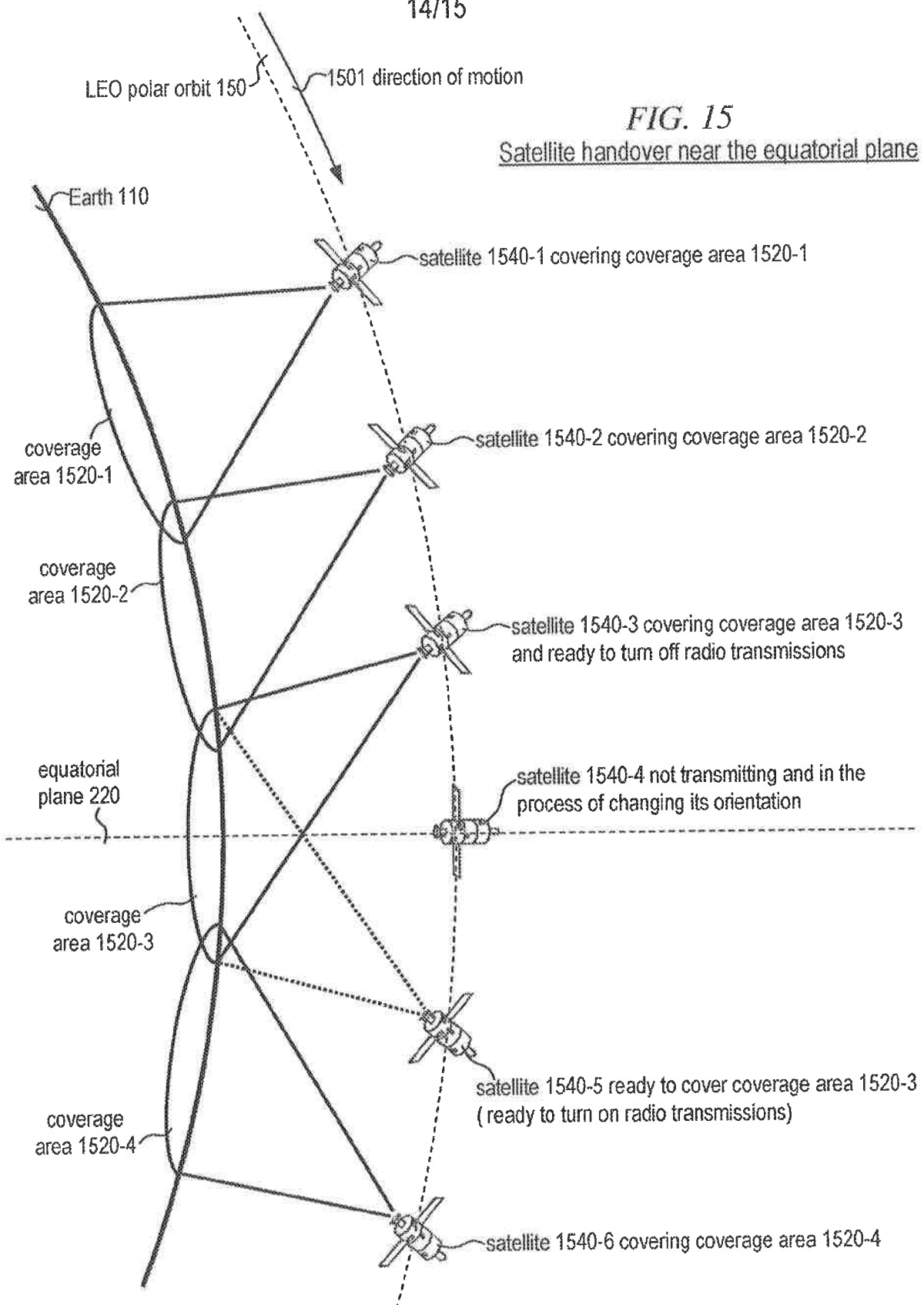


FIG. 15

Satellite handover near the equatorial plane

FIG. 16

Interference mitigation via combined satellite tilting and selective beam activation

