RADIO WAVE ABSORBER
- For aircraft or missile
- For camouflage
- With particular geometric configuration

RADAR REFLECTOR
- With modulation
- Corner
- Inflatable or collapsible
- Decoy or tow target
- Inflatable or collapsible
- With spherical lens (e.g., Luneberg lens)

RADAR EW (ELECTRONIC WARFARE)
- ECM (Electronic countermeasures, i.e., jamming)
- With repeater
- ECCM (Electronic countermeasures, i.e., antijamming)
- Radar reacts to jamming
- By changing frequency
- By varying gain or blocking receiver

BASE BAND SYSTEM
- Detection of surveillance
- TRANSMISSION THROUGH MEDIA OTHER THAN AIR OR FREE SPACE
- BLIND AID
- SYNTHETIC APERTURE RADAR
- Mapping or imaging using synthetic aperture radar (EPO)
- Specially adapted for moving target detection (EPO)
- Combined with monopulse or interferometric (EPO)
- With frequency domain processing of the SAR signals in azimuth (EPO)
- With time domain processing of the SAR signals in azimuth, e.g. time focusing (EPO)
- Particular SAR processing techniques (e.g., squint mode, doppler beam-sharpening mode, spotlight mode, bistatic SAR, inverse SAR) (EPO)

RADAR FOR METEOROLOGICAL USE (EPO)
- Mounted on ship (EPO)
- Ground based (EPO)

PRESENCE DETECTION ONLY
- By motion detection

AIRCRAFT COLLISION AVOIDANCE SYSTEM (CAS)
- With transponder
- Including synchronized clock
- Included in Secondary Surveillance Radar (SSR) or Air Traffic Control Radio Beacon System (ATCRBS)

AIRCRAFT LANDING SYSTEM
- Ground control approach (GCA)
- Microwave landing system (MLS)

AIR TRAFFIC CONTROL
- Secondary Surveillance Radar (SSR) or Air Traffic Control Radar Beacon System (ATCRBS)
- With altitude information
- With side lobe suppression
- With defruiting or degarbling

SHIP COLLISION AVOIDANCE RADAR TRANSPONDER SYSTEM
- Combined with primary radar system
- Unique identity
- IFF or SIF
- Navigational
- Distance measuring equipment (DME)
- With automatic lock-on
- With VOR/TACAN
- With Telemetry
- Radar transponder only

COMBINED WITH DIVERSE TYPE RADIANT ENERGY SYSTEM
- With infrared device
- With laser
- With television
- With direction finding
- With radio voice communication
- With transmission to a remote station

PLURAL RADAR TRANSMITTING INTELLIGENCE
RETURN SIGNAL CONTROLS EXTERNAL DEVICE
- Missile or spacecraft guidance
- Aircraft guidance
- With map matching
- With terrain avoidance or alarm
- Camera
.Gun (e.g., fire control) 107 .Combined with determining distance and direction
.Proximity fuze 108 ..With correlation
.Device actuated by presence of land vehicle 109 .Combined with determining distance
.Radar mounted on and controls land vehicle 110 ..With plural fixed range gates
..With control of brakes or steering 111 ..With plural receiver frequency band separation
..With control of safety device (e.g., air bags) 112 ..With plural frequencies transmission
.RETURN SIGNAL CONTROLS RADAR SYSTEM 113 .Combined with determining direction (i.e., bearing)
.Antenna control 114 .Combined with determining sense of motion (i.e., approaching or receding)
..Physical orientation 115 .Digital
...With ground tracking 116 .With plural received frequency band separation
...With signal error correction 117 .With plural beams (e.g., "Janus")
.Conical scan 118 .DETERMINING VELOCITY
.Lobe switching 119 .Miss distance indicator (MDI)
.Mono pulse 120 .Altimeter
..Beam direction by phase or frequency control 121 .With additional indicator
.Transmitter 122 .FM type
..Signal phase or frequency other than pulse repetition frequency (PRF) 123 .Height finder
...Function of doppler frequency 124 .Material level within container
...Function of distance 125 .With remote cooperating station
...With constant phase 126 .Triangulation
....With constant beat frequency 127 .Phase comparison
...Transmission timing (e.g., ring around) 128 .With frequency modulation
.Receiver 129 ..Plural frequencies transmitted
..Automatic target detection 130 ..Plural modulation
.Gain or threshold 131 .Combined with pulse modulation (e.g., frequency agile)
.Automatic gain control (AGC) 132 ....With pulse modulation (e.g., "Chirp")
.Constant false alarm rate (CFAR) 133 .Combined with determining direction
.Gating 134 .With pulse modulation
...Automatic range tracking 135 .Digital (e.g., with counter)
....Automatic track while scan (ATWS) 136 .With plural fixed range gates
....With automatic lock-on 137 .With variable pulse repetition frequency (PRF) or pulse width
.Frequency 138 .With type "A" or "J" range scope
.Doppler frequency tracking 139 .Combined with determining direction
....With local oscillator control 140 ....With azimuth and elevation determination
....With filter control 141 ....Off boresight
..Phase 142 ....With CRT display
..Phase locked loop 143 ....Plural

DETERMINING DISTANCE
.Miss distance indicator (MDI) 129
.Altimeter 130
..With additional indicator 131
.FM type 132
.Height finder 133
.Material level within container 134
.With remote cooperating station 135
.Triangulation 136
.Phase comparison 137
.With frequency modulation 138
..Plural frequencies transmitted 139
..Plural modulation 140
...Combined with pulse modulation (e.g., frequency agile) 141
....With pulse modulation (e.g., "Chirp") 142
..With frequency modulation 143
...With pulse modulation 144
..Digital (e.g., with counter) 145
...With plural fixed range gates 146
...With variable pulse repetition frequency (PRF) or pulse width 147
...With type "A" or "J" range scope 148
...With azimuth and elevation determination 149
...Off boresight 150
....Plural

DETERMINING VELOCITY
.Other than doppler (e.g., range rate) 151
.Combined with determining acceleration 152
.Offered free of charge by the U.S. Department of Defense
DETERMINING DIRECTION

- Low angle processing
- Monopulse
- With common IF channel
- With channel equalization
- With quadrature difference processing
- With particular antenna or waveguide
- Combined with beam steering
- Lobe switching
- Interferometer
- With frequency or phase steering
- Scanning

CLUTTER ELIMINATION

- MTI (Moving target indicator)
- With vehicle movement compensation (e.g., AMTI (Airborn MTI))
- Digital
- With blind speed elimination
- With storage tube

TESTING OR CALIBRATING OF RADAR SYSTEM

- Proximity fuze
- With laser
- With noise generation
- By simulation
- Microwave
- Doppler
- With delay
- By monitoring
- Calibrating

WITH PARTICULAR CIRCUIT

- Display
- Plural
- Projection type
- Image production
- Stereoscopic or tridimensional
- Color
- Electronic marker generation
- Cursor
- With stabilization (e.g., True Motion, True North)
- Scan conversion
- With sweep expansion
- Augmenter
- With polarization
- For correlation
- With recording

DIRECTIVE

- Including a radiometer
- Including a satellite
- Having a signal repeater
- With beam steering
- With control of satellite attitude
- Synchronous satellite
- With position, velocity, or attitude determination (IPC)
- Determining a navigation solution using signals transmitted by a satellite radio beacon positioning system
- Satellite radio beacon positioning system transmitting time-stamped messages; e.g., GPS [Global Positioning System], GLONASS [Global Orbiting Navigation Satellite System] or GALILEO (IPC)
- Correcting position, velocity, or attitude
- Differential correction; e.g., DGPS [differential GPS] (IPC)
- Determining position (IPC)
- Using carrier phase measurements; e.g., kinematic positioning; using long or short baseline interferometry (IPC)
357.27 .......Carrier phase ambiguity resolution; floating ambiguity; LAMBDA [Least-squares AMBiguity Declaration Adjustment] method (IPC)

357.28 .......By combining measurements of signals from the satellite radio beacon positioning system with a supplementary measurement (IPC)

357.29 .......The supplementary measurement being of a radio-wave signal type (IPC)

357.3 .......The supplementary measurement being an inertial measurement; e.g., tightly coupled inertial (IPC)

357.31 .......By combining or switching between position solutions derived from the satellite radio beacon positioning system and position solutions derived from a further system (IPC)

357.32 .......Whereby the further system is an inertial position system; e.g., loosely coupled (IPC)

357.33 .......Whereby the position solution is constrained to lie upon a particular curve or surface; e.g., for locomotives on railway tracks (IPC)

357.34 .......Relative positioning (IPC)

357.35 .......Determining velocity (IPC)

357.36 .......Determining attitude (IPC)

357.37 .......Using carrier phase measurements; using long or short baseline interferometry (IPC)

357.38 .......Carrier phase ambiguity resolution; floating ambiguity; LAMBDA [Least-squares AMBiguity Declaration Adjustment] method

357.39 ...Satellite radio beacon positioning system transmitting time-stamped messages; e.g. GPS [Global Positioning System], GLONASS [Global Orbiting Navigation Satellite System] or GALILEO (IPC)

357.395 ....Details of the space or ground control segments (IPC)

357.4 .......Cooperating elements; interaction or communication between different cooperating elements or between cooperating elements and receivers (IPC)

357.41 .......Providing carrier phase data (IPC)

357.42 .......Providing aiding data (IPC)

357.43 .......Employing an initial estimate of the location of the receiver as aiding data or in generating aiding data (IPC)

357.44 .......Providing data for correcting measured positioning data; e.g., DGPS [differential GPS] or ionosphere corrections (IPC)

357.45 .......Providing integrity information; e.g., health of satellites or quality of ephemeris data (IPC)

357.46 .......Providing processing capability normally carried out by the receiver (IPC)

357.47 .......Providing dedicated supplementary positioning signals (IPC)

357.48 .......Wherein the cooperating elements are pseudolites or satellite radio beacon positioning system signal repeaters (IPC)

357.49 .......Wherein the cooperating elements are telecommunication base stations (IPC)

357.51 .......Receivers (IPC)

357.52 .......Specially adapted for specific applications (IPC)

357.53 .......Aircraft landing systems (IPC)

357.54 .......Anti-theft; abduction (IPC)

357.55 .......Emergency applications (IPC)

357.56 .......Military applications (IPC)

357.57 .......Sporting applications (IPC)

357.58 .......Integrity monitoring, fault detection or fault isolation of space segment

357.59 .......Interference-related issues (IPC)

357.61 .......Multipath-related issues (IPC)
357.62 Testing, monitoring, correcting or calibrating of a receiver element (IPC)
357.63 Acquisition or tracking of signals transmitted by the system (IPC)
357.64 Involving aiding data received from a cooperating element; e.g., assisted GPS (IPC)
357.65 Involving a sensor measurement for aiding acquisition or tracking (IPC)
357.66 Creating, predicting or correcting ephemeris or almanac data within the receiver (IPC)
357.67 Satellite selection (IPC)
357.68 Carrier related (IPC)
357.69 Code related (IPC)
357.71 Acquisition or tracking of other signals for positioning (IPC)
357.72 Multimode operation in a single same satellite system; e.g., GPS L1/L2 (IPC)
357.73 Multimode operation in different systems which transmit time-stamped messages; e.g., GPS/GLONASS (IPC)
357.74 Power consumption
357.75 Constructional details or hardware or software details of the signal processing chain (IPC)
357.76 Relating to the receiver frond end (IPC)
357.77 Hardware or software details of the signal processing chain (IPC)
357.78 Using Doppler frequency shift
358 With satellite signal correction
359 Including antenna orientation
360 Including antenna pattern plotting
361 Including polarized signal communication transmitter or receiver
362 Receiver only
363 Circular
364 Elliptical
365 Circular
366 Elliptical

367 Including directive communication system
368 Including a steerable array
369 Injection radiation type
370 Retrodirective
371 With electronic scanning
372 Controlled
373 With a matrix
374 With a switch
375 With a delay line (e.g., serpentine transmission line, frequency scanning)
376 Including a remote energy source
377 Including a computer
378 Utilizing correlation techniques
379 Side lobe elimination
380 Sum of each antenna channel signal
381 Difference of each antenna channel signal
382 Mixing each antenna channel signal
383 Sum of each antenna signal
384 Difference of each antenna channel signal
385 Beacon or receiver
386 With transmisson of bearing or position determinative signals
387 Iso-chronic type
388 Loran
389 Loran-C
390 With cycle selection
391 Loran-A
392 With automatic gain control
393 Iso-frequency type
394 iso-phase type
395 With heterodyne synchronization
396 Omega
397 Decca
398 Rotating beacon signal
399 Tacan
400 Receiver only
401 VOR
402 Doppler
403 With circular array of antennas
404 VOR
405 Doppler
406 With circular array of antennas
407 Fixed course or bearing indicating
FOREIGN ART COLLECTIONS

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