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| 1 | PLURAL CHANNEL SYSTEMS | 133 | ...Utilizing electromechanical transducer |
| 1.1 | .Nonreciprocal gyromagnetic type (e.g., circulators) | 134 | ...Utilizing long line element |
| 2 | .With automatic control | 135 | ...Including waveguide element |
| 3 | ..Line substitution | 136 | ..Including long line element |
| 4 | .With balanced circuits | 137 | ...Using waveguide |
| 5 | ..Plural balanced circuits | 12 | TRANSMISSION LINE INDUCTIVE OR RADIATION INTERFERENCE REDUCTION SYSTEMS |
| 100 | .Having branched circuits | 13 | RESONATOR-TYPE BREAKDOWN DISCHARGE SYSTEMS (E.G., T-R OR R-T SYSTEMS) |
| 101 | ..Including switching means | 14 | AMPLITUDE COMPRESSION AND EXPANSION SYSTEMS (I.E., COMPANDERS) |
| 102 | ...Having gyromagnetic operating means | 15 | PILOT LINE-CONTROLLED SYSTEMS |
| 103 | ...Having semiconductor operating means | 16 | PILOT CURRENT-CONTROLLED SYSTEMS |
| 104 | ...Using TEM lines | 17.1 | AUTOMATICALLY CONTROLLED SYSTEMS |
| 105 | ...Having mechanical switching means | 17.2 | .Limiting of amplitude |
| 106 | ...Using rotary switching means | 17.3 | .Impedance matching |
| 107 |For TEM lines | 18 | .With control of equalizer and/or delay network |
| 108 |For waveguide | 19 | DIFFERENTIATING OR INTEGRATING SYSTEMS |
| 109 | ..Using directional coupler | 20 | WAVE-SHAPING |
| 110 | ...For providing frequency separation | 21 R | WAVE MODE CONVERTERS |
| 111 | ...For providing adjustable coupling | 21 A | .Polarization converters |
| 112 | ..Having lumped parameters or impedances | 22 R | DISSIPATING TERMINATIONS FOR LONG LINES |
| 113 | ...Having parallel-guide waveguide | 22 F | .Fluid-cooling |
| 114 | ...Having crossed-guide waveguide | 23 | ARTIFICIAL LINES |
| 115 | ...Having TEM lines | 24 R | COUPLING NETWORKS |
| 116 | ...Using stripline | 24.1 | .Nonreciprocal gyromagnetic type (e.g., directional phase shifters) |
| 117 | ..Including hybrid-type network | 24.2 | ..Nonreciprocal attenuators or isolators |
| 118 | ...Having lumped parameters or impedances | 24.3 | ..Nonreciprocal polarization rotators |
| 119 | ...Using transformer coil | 25 | .Balanced to unbalanced circuits |
| 120 | ...Having hybrid ring junction | 26 | ..Having long line elements |
| 121 | ...Having hybrid-T (e.g., magic-T) | 27 | .Interlinking long line |
| 122 | ...Using waveguide | 28 R | .Equalizers |
| 123 | ..Having coaxial element | 28 T | ..Audio tone control |
| 124 | ..With impedance matching | 138 | .Delay lines including a lumped parameter |
| 125 | ...Including long line element | 139 | ..Variable parameter |
| 126 | ...For providing frequency separation | 140 | ..Physical structure |
| 127 | ...Using TEM lines | 141 | .Delay lines including elastic bulk wave propagation means |
| 128 |Stripline | 142 | ..Multipath propagation |
| 129 | ...For providing frequency separation | 143 | ...Spurious signal reduction |
| 130 | ...Using resistors only | 144 | ..Variable delay |
| 131 | ...Using coupled windings | | |
| 132 | ..For providing frequency separation | | |

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|-----|--|-----|---|
| 145 | ..Nonuniform propagation path | 174 | ..With variable response |
| 146 | ..Helical propagation path | 175 | ..Resonant, discrete frequency selective type |
| 147 | ..Propagation path has significant chemical or physical properties | 176 | ...Including specific frequency rejection means |
| 148 | ..Including magnetostrictive transducers | 177 | ..Transformer coupled |
| 149 | ..Significant transducer structure | 178 | ...Including bandwidth adjusting, shaping, or stabilization means |
| 150 | ..Delay lines including elastic surface wave propagation means | 179 | ...With permeability tuning means |
| 151 | ..Spurious signal or mode cancellation means | 180 | ...With variable coupling means |
| 152 | ..Variable delay | 181 | ..Smoothing type (e.g., direct current power supply filters or decoupling filters) |
| 153 | ..Including discontinuities within propagation means | 182 | ...Feedthrough type |
| 154 | ..Significant transmitting or receiving transducer structure | 183 | ...Resiliently mounted components |
| 155 | ..Temperature stabilization or compensation | 184 | ...Monolithic structure |
| 156 | ..Delay lines including long line elements | 185 | ..Having significant physical structure |
| 157 | ..Waveguide | 186 | ..Electromechanical filter |
| 158 | ...Including ferrite means | 187 | ..Using bulk mode piezoelectric vibrator |
| 159 | ...Having mechanically movable delay control means | 188 | ...With means for varying response |
| 160 | ..Coaxial line | 189 | ...Plural coupled vibrators |
| 161 | ..Planar line structure (e.g., stripline) | 190 |Lattice structure |
| 162 | ..Helical line structures and lines developed from a helical structure | 191 |Monolithic structure |
| 163 | ...Having plural concentric helices | 192 |With electrical coupling |
| 164 | ..Control of delay with semiconductive means | 193 | ..Using surface acoustic waves |
| 32 | ..With impedance matching | 194 | ...Including spurious signal prevention or reduction means |
| 33 | ..Having long line elements | 195 | ...With wave-modifying means (e.g., reflectors, resonators, diffractors, multistrip couplers, etc.) |
| 34 | ...Tapered | 196 | ...With response weighting means |
| 35 | ...Quarter-wave transformer type | 197 | ..Plural mechanically coupled bar, plate, or rod-type resonating means |
| 165 | ..Frequency or time domain filters and delay lines utilizing charge transfer devices | 198 | ...Plural interresonator coupling paths |
| 166 | ..Time domain filters | 199 | ...Plural mechanically coupled disk resonators |
| 167 | ..Frequency domain filters utilizing only lumped parameters | 200 | ..Reed- or fork-type resonators |
| 168 | ..Including recurrent sections | 201 | ..Magnetostrictive wave transmission path |
| 169 | ..Wheatstone or lattice type | 202 | ..Wave filters including long line elements |
| 170 | ..Bridge type | 203 | ..Digital structure |
| 171 | ..With variable response | 204 | ..Stripline or microstrip |
| 172 | ..RC or RL type | 205 | ...Tunable |
| 173 | ..Synchronous filters | 206 | ..Coaxial |

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|-------|--|-------|------------------------------------|
| 207 | ...Tunable | 247 | ..Semiconductor mounts |
| 208 | ..Waveguide | 248 | .Waveguide elements and components |
| 209 | ...Tunable | 249 | ..Bend |
| 210 | ...Including evanescent guide sections | 250 | ..Active element mounting |
| 211 | ...Including frequency selective absorbing means | 251 | ..Mode suppressor |
| 212 | ...Including directly coupled resonant sections | 252 | ..Window |
| 24 C | .Capacity coupling | 253 | ..Including variable impedance |
| 213 | NEGATIVE RESISTANCE OR REACTANCE NETWORKS OF THE ACTIVE TYPE | 254 | ..Connectors and interconnections |
| 214 | .Simulating specific type of reactance | 255 | ...Quick disconnect |
| 215 | ..Using gyrator | 256 | ...Movable |
| 216 | ..Having negative impedance | 257 |In line |
| 217 | ..Providing negative resistance | 258 | ..Switch |
| 81 R | ATTENUATORS | 259 | ..Mechanically movable |
| 81 A | .Coaxial or microstrip | 260 | .Connectors and interconnections |
| 81 B | .Waveguide type | 261 | ..Rotary coupling |
| 218 | FREQUENCY MULTIPLIERS | 262 | .Switch |
| 219 | RESONATORS (DISTRIBUTED PARAMETER TYPE) | 263 | .Including variable impedance |
| 219.1 | .Dielectric type | 99 R | MISCELLANEOUS |
| 219.2 | .Magnetic type | 99 S | .Superconductive |
| 220 | .Open wire or Lecher line | 99 PL | .Plasma |
| 221 | ..With tuning | 99 MP | .Multipactor applications |
| 222 | .Coaxial or shielded | | |
| 223 | ..With tuning | | |
| 224 | ...Having movable element | | |
| 225 |Using movable shorting means | | |
| 226 |Using plunger, rod, or piston | | |
| 227 | .Cavity resonator | | |
| 228 | ..With mode suppressor | | |
| 229 | ..With temperature compensation | | |
| 230 | ..With coupling | | |
| 231 | ..With tuning | | |
| 232 | ...Having movable element | | |
| 233 |Using movable wall | | |
| 234 | .Temperature compensated | | |
| 235 | .With tuning | | |
| 236 | LONG LINES | | |
| 237 | .Leaky lines | | |
| 238 | .Strip type | | |
| 239 | .Waveguide type | | |
| 240 | ..Surface wave | | |
| 241 | ..Flexible | | |
| 242 | ..Circular or helical structure | | |
| 243 | .Shielded type | | |
| 244 | ..Including spaced, electrically compensated, internal support means | | |
| 245 | LONG LINE ELEMENTS AND COMPONENTS | | |
| 246 | .Strip type | | |

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