# CPC to IPC Concordance for Subclass G06F

| CPC Group | IPC Group |
|---|---|
| G06F 1/00 | G06F 1/00 |
| G06F 1/02 | G06F 1/02 |
| G06F 1/022 | G06F 1/02 |
| G06F 1/025 | G06F 1/025 |
| G06F 1/0255 | G06F 1/025 |
| G06F 1/03 | G06F 1/03 |
| G06F 1/0307 | G06F 1/03 |
| G06F 1/0314 | G06F 1/03 |
| G06F 1/0321 | G06F 1/03 |
| G06F 1/0328 | G06F 1/03 |
| G06F 1/0335 | G06F 1/03 |
| G06F 1/0342 | G06F 1/03 |
| G06F 1/035 | G06F 1/035 |
| G06F 1/0353 | G06F 1/035 |
| G06F 1/0356 | G06F 1/035 |
| G06F 1/04 | G06F 1/04 |
| G06F 1/06 | G06F 1/06 |
| G06F 1/08 | G06F 1/08 |
| G06F 1/10 | G06F 1/10 |
| G06F 1/105 | G06F 1/10 |
| G06F 1/12 | G06F 1/12 |
| G06F 1/14 | G06F 1/14 |
| G06F 1/16 | G06F 1/16 |

| CPC Group | IPC Group |
|---|---|
| G06F 1/1601 | G06F 1/16 |
| G06F 1/1603 | G06F 1/16 |
| G06F 1/1605 | G06F 1/16 |
| G06F 1/1607 | G06F 1/16 |
| G06F 1/1609 | G06F 1/16 |
| G06F 1/1611 | G06F 1/16 |
| G06F 1/1613 | G06F 1/16 |
| G06F 1/1615 | G06F 1/16 |
| G06F 1/1616 | G06F 1/16 |
| G06F 1/1618 | G06F 1/16 |
| G06F 1/162 | G06F 1/16 |
| G06F 1/1622 | G06F 1/16 |
| G06F 1/1624 | G06F 1/16 |
| G06F 1/1626 | G06F 1/16 |
| G06F 1/1628 | G06F 1/16 |
| G06F 1/163 | G06F 1/16 |
| G06F 1/1632 | G06F 1/16 |
| G06F 1/1633 | G06F 1/16 |
| G06F 1/1635 | G06F 1/16 |
| G06F 1/1637 | G06F 1/16 |
| G06F 1/1639 | G06F 1/16 |
| G06F 1/1641 | G06F 1/16 |
| G06F 1/1643 | G06F 1/16 |
| G06F 1/1645 | G06F 1/16 |

| CPC Group | IPC Group |
|---|---|
| G06F 1/1647 | G06F 1/16 |
| G06F 1/1649 | G06F 1/16 |
| G06F 1/165 | G06F 1/16 |
| G06F 1/1652 | G06F 1/16 |
| G06F 1/1654 | G06F 1/16 |
| G06F 1/1656 | G06F 1/16 |
| G06F 1/1658 | G06F 1/16 |
| G06F 1/166 | G06F 1/16 |
| G06F 1/1662 | G06F 1/16 |
| G06F 1/1664 | G06F 1/16 |
| G06F 1/1666 | G06F 1/16 |
| G06F 1/1667 | G06F 1/16 |
| G06F 1/1669 | G06F 1/16 |
| G06F 1/1671 | G06F 1/16 |
| G06F 1/1673 | G06F 1/16 |
| G06F 1/1675 | G06F 1/16 |
| G06F 1/1677 | G06F 1/16 |
| G06F 1/1679 | G06F 1/16 |
| G06F 1/1681 | G06F 1/16 |
| G06F 1/1683 | G06F 1/16 |
| G06F 1/1684 | G06F 1/16 |
| G06F 1/1686 | G06F 1/16 |
| G06F 1/1688 | G06F 1/16 |
| G06F 1/169 | G06F 1/16 |

| CPC Group | IPC Group |
|---|---|
| G06F 1/1692 | G06F 1/16 |
| G06F 1/1694 | G06F 1/16 |
| G06F 1/1696 | G06F 1/16 |
| G06F 1/1698 | G06F 1/16 |
| G06F 1/18 | G06F 1/18 |
| G06F 1/181 | G06F 1/18 |
| G06F 1/182 | G06F 1/18 |
| G06F 1/183 | G06F 1/18 |
| G06F 1/184 | G06F 1/18 |
| G06F 1/185 | G06F 1/18 |
| G06F 1/186 | G06F 1/18 |
| G06F 1/187 | G06F 1/18 |
| G06F 1/188 | G06F 1/18 |
| G06F 1/189 | G06F 1/18 |
| G06F 1/20 | G06F 1/20 |
| G06F 1/203 | G06F 1/20 |
| G06F 1/206 | G06F 1/20 |
| G06F 1/22 | G06F 1/22 |
| G06F 1/24 | G06F 1/24 |
| G06F 1/26 | G06F 1/26 |
| G06F 1/263 | G06F 1/26 |
| G06F 1/266 | G06F 1/26 |
| G06F 1/28 | G06F 1/28 |
| G06F 1/30 | G06F 1/30 |

| CPC Group | IPC Group |
|---|---|
| G06F 1/305 | G06F 1/30 |
| G06F 1/32 | G06F 1/32 |
| G06F 1/3203 | G06F 1/3203 |
| G06F 1/3206 | G06F 1/3206 |
| G06F 1/3209 | G06F 1/3209 |
| G06F 1/3212 | G06F 1/3212 |
| G06F 1/3215 | G06F 1/3215 |
| G06F 1/3218 | G06F 1/3218 |
| G06F 1/3221 | G06F 1/3221 |
| G06F 1/3225 | G06F 1/3225 |
| G06F 1/3228 | G06F 1/3228 |
| G06F 1/3231 | G06F 1/3231 |
| G06F 1/3234 | G06F 1/3234 |
| G06F 1/3237 | G06F 1/3237 |
| G06F 1/324 | G06F 1/324 |
| G06F 1/3243 | G06F 1/3234 |
| G06F 1/3246 | G06F 1/3246 |
| G06F 1/325 | G06F 1/3234 |
| G06F 1/3253 | G06F 1/3234 |
| G06F 1/3256 | G06F 1/3234 |
| G06F 1/3259 | G06F 1/3234 |
| G06F 1/3262 | G06F 1/3234 |
| G06F 1/3265 | G06F 1/3234 |
| G06F 1/3268 | G06F 1/3234 |

| CPC Group | IPC Group |
|---|---|
| G06F 1/3271 | G06F 1/3234 |
| G06F 1/3275 | G06F 1/3234 |
| G06F 1/3278 | G06F 1/3234 |
| G06F 1/3281 | G06F 1/3234 |
| G06F 1/3284 | G06F 1/3234 |
| G06F 1/3287 | G06F 1/3287 |
| G06F 1/329 | G06F 1/329 |
| G06F 1/3293 | G06F 1/3293 |
| G06F 1/3296 | G06F 1/3296 |
| G06F 3/00 | G06F 3/00 |
| G06F 3/002 | G06F 3/00 |
| G06F 3/005 | G06F 3/00 |
| G06F 3/007 | G06F 3/00 |
| G06F 3/01 | G06F 3/01 |
| G06F 3/011 | G06F 3/01 |
| G06F 3/012 | G06F 3/01 |
| G06F 3/013 | G06F 3/01 |
| G06F 3/014 | G06F 3/01 |
| G06F 3/015 | G06F 3/01 |
| G06F 3/016 | G06F 3/01 |
| G06F 3/017 | G06F 3/01 |
| G06F 3/018 | G06F 3/01 |
| G06F 3/02 | G06F 3/02 |
| G06F 3/0202 | G06F 3/02 |

| CPC Group | IPC Group |
|---|---|
| G06F 3/0205 | G06F 3/02 |
| G06F 3/0208 | G06F 3/02 |
| G06F 3/021 | G06F 3/02 |
| G06F 3/0213 | G06F 3/02 |
| G06F 3/0216 | G06F 3/02 |
| G06F 3/0219 | G06F 3/02 |
| G06F 3/0221 | G06F 3/02 |
| G06F 3/0224 | G06F 3/02 |
| G06F 3/0227 | G06F 3/02 |
| G06F 3/023 | G06F 3/023 |
| G06F 3/0231 | G06F 3/023 |
| G06F 3/0232 | G06F 3/023 |
| G06F 3/0233 | G06F 3/023 |
| G06F 3/0234 | G06F 3/023 |
| G06F 3/0235 | G06F 3/023 |
| G06F 3/0236 | G06F 3/023 |
| G06F 3/0237 | G06F 3/023 |
| G06F 3/0238 | G06F 3/023 |
| G06F 3/027 | G06F 3/027 |
| G06F 3/03 | G06F 3/03 |
| G06F 3/0304 | G06F 3/03 |
| G06F 3/0308 | G06F 3/03 |
| G06F 3/0312 | G06F 3/03 |
| G06F 3/0317 | G06F 3/03 |

| CPC Group | IPC Group |
|---|---|
| G06F 3/0321 | G06F 3/03 |
| G06F 3/0325 | G06F 3/03 |
| G06F 3/033 | G06F 3/033 |
| G06F 3/0334 | G06F 3/033 |
| G06F 3/0338 | G06F 3/0338 |
| G06F 3/0346 | G06F 3/0346 |
| G06F 3/0354 | G06F 3/0354 |
| G06F 3/03541 | G06F 3/0354 |
| G06F 3/03542 | G06F 3/0354 |
| G06F 3/03543 | G06F 3/0354 |
| G06F 3/03544 | G06F 3/0354 |
| G06F 3/03545 | G06F 3/0354 |
| G06F 3/03546 | G06F 3/0354 |
| G06F 3/03547 | G06F 3/0354 |
| G06F 3/03548 | G06F 3/0354 |
| G06F 3/03549 | G06F 3/0354 |
| G06F 3/0362 | G06F 3/0362 |
| G06F 3/037 | G06F 3/037 |
| G06F 3/038 | G06F 3/038 |
| G06F 3/0383 | G06F 3/038 |
| G06F 3/0386 | G06F 3/038 |
| G06F 3/039 | G06F 3/039 |
| G06F 3/0393 | G06F 3/039 |
| G06F 3/0395 | G06F 3/039 |

| CPC Group | IPC Group |
|---|---|
| G06F 3/041 | G06F 3/041 |
| G06F 3/0412 | G06F 3/041 |
| G06F 3/0414 | G06F 3/041 |
| G06F 3/04142 | G06F 3/041 |
| G06F 3/04144 | G06F 3/041 |
| G06F 3/04146 | G06F 3/041 |
| G06F 3/0416 | G06F 3/041 |
| G06F 3/04162 | G06F 3/041 |
| G06F 3/04164 | G06F 3/041 |
| G06F 3/04166 | G06F 3/041 |
| G06F 3/041661 | G06F 3/041 |
| G06F 3/041662 | G06F 3/041 |
| G06F 3/0418 | G06F 3/041 |
| G06F 3/04182 | G06F 3/041 |
| G06F 3/04184 | G06F 3/041 |
| G06F 3/04186 | G06F 3/041 |
| G06F 3/042 | G06F 3/042 |
| G06F 3/0421 | G06F 3/042 |
| G06F 3/0423 | G06F 3/042 |
| G06F 3/0425 | G06F 3/042 |
| G06F 3/0426 | G06F 3/042 |
| G06F 3/0428 | G06F 3/042 |
| G06F 3/043 | G06F 3/043 |
| G06F 3/0433 | G06F 3/043 |

| CPC Group | IPC Group |
|---|---|
| G06F 3/0436 | G06F 3/043 |
| G06F 3/044 | G06F 3/044 |
| G06F 3/0441 | G06F 3/044 |
| G06F 3/0442 | G06F 3/044 |
| G06F 3/0443 | G06F 3/044 |
| G06F 3/0444 | G06F 3/044 |
| G06F 3/0445 | G06F 3/044 |
| G06F 3/0446 | G06F 3/044 |
| G06F 3/0447 | G06F 3/044 |
| G06F 3/0448 | G06F 3/044 |
| G06F 3/045 | G06F 3/045 |
| G06F 3/046 | G06F 3/046 |
| G06F 3/047 | G06F 3/047 |
| G06F 3/048 | G06F 3/048 |
| G06F 3/0481 | G06F 3/0481 |
| G06F 3/04812 | G06F 3/04812 |
| G06F 3/04815 | G06F 3/04815 |
| G06F 3/04817 | G06F 3/04817 |
| G06F 3/0482 | G06F 3/0482 |
| G06F 3/0483 | G06F 3/0483 |
| G06F 3/0484 | G06F 3/0484 |
| G06F 3/04842 | G06F 3/04842 |
| G06F 3/04845 | G06F 3/04845 |
| G06F 3/04847 | G06F 3/04847 |

| CPC Group | IPC Group |
|---|---|
| G06F 3/0485 | G06F 3/0485 |
| G06F 3/04855 | G06F 3/04855 |
| G06F 3/0486 | G06F 3/0486 |
| G06F 3/0487 | G06F 3/0487 |
| G06F 3/0488 | G06F 3/0488 |
| G06F 3/04883 | G06F 3/04883 |
| G06F 3/04886 | G06F 3/04886 |
| G06F 3/0489 | G06F 3/0489 |
| G06F 3/04892 | G06F 3/04892 |
| G06F 3/04895 | G06F 3/04895 |
| G06F 3/04897 | G06F 3/0489 |
| G06F 3/05 | G06F 3/05 |
| G06F 3/06 | G06F 3/06 |
| G06F 3/0601 | G06F 3/06 |
| G06F 3/0602 | G06F 3/06 |
| G06F 3/0604 | G06F 3/06 |
| G06F 3/0605 | G06F 3/06 |
| G06F 3/0607 | G06F 3/06 |
| G06F 3/0608 | G06F 3/06 |
| G06F 3/061 | G06F 3/06 |
| G06F 3/0611 | G06F 3/06 |
| G06F 3/0613 | G06F 3/06 |
| G06F 3/0614 | G06F 3/06 |
| G06F 3/0616 | G06F 3/06 |

| CPC Group | IPC Group |
|---|---|
| G06F 3/0617 | G06F 3/06 |
| G06F 3/0619 | G06F 3/06 |
| G06F 3/062 | G06F 3/06 |
| G06F 3/0622 | G06F 3/06 |
| G06F 3/0623 | G06F 3/06 |
| G06F 3/0625 | G06F 3/06 |
| G06F 3/0626 | G06F 3/06 |
| G06F 3/0628 | G06F 3/06 |
| G06F 3/0629 | G06F 3/06 |
| G06F 3/0631 | G06F 3/06 |
| G06F 3/0632 | G06F 3/06 |
| G06F 3/0634 | G06F 3/06 |
| G06F 3/0635 | G06F 3/06 |
| G06F 3/0637 | G06F 3/06 |
| G06F 3/0638 | G06F 3/06 |
| G06F 3/064 | G06F 3/06 |
| G06F 3/0641 | G06F 3/06 |
| G06F 3/0643 | G06F 3/06 |
| G06F 3/0644 | G06F 3/06 |
| G06F 3/0646 | G06F 3/06 |
| G06F 3/0647 | G06F 3/06 |
| G06F 3/0649 | G06F 3/06 |
| G06F 3/065 | G06F 3/06 |
| G06F 3/0652 | G06F 3/06 |

| CPC Group | IPC Group |
|---|---|
| G06F 3/0653 | G06F 3/06 |
| G06F 3/0655 | G06F 3/06 |
| G06F 3/0656 | G06F 3/06 |
| G06F 3/0658 | G06F 3/06 |
| G06F 3/0659 | G06F 3/06 |
| G06F 3/0661 | G06F 3/06 |
| G06F 3/0662 | G06F 3/06 |
| G06F 3/0664 | G06F 3/06 |
| G06F 3/0665 | G06F 3/06 |
| G06F 3/0667 | G06F 3/06 |
| G06F 3/0668 | G06F 3/06 |
| G06F 3/067 | G06F 3/06 |
| G06F 3/0671 | G06F 3/06 |
| G06F 3/0673 | G06F 3/06 |
| G06F 3/0674 | G06F 3/06 |
| G06F 3/0676 | G06F 3/06 |
| G06F 3/0677 | G06F 3/06 |
| G06F 3/0679 | G06F 3/06 |
| G06F 3/068 | G06F 3/06 |
| G06F 3/0682 | G06F 3/06 |
| G06F 3/0683 | G06F 3/06 |
| G06F 3/0685 | G06F 3/06 |
| G06F 3/0686 | G06F 3/06 |
| G06F 3/0688 | G06F 3/06 |

| CPC Group | IPC Group |
|---|---|
| G06F 3/0689 | G06F 3/06 |
| G06F 2003/0697 | G06F 3/06 |
| G06F 3/08 | G06F 3/08 |
| G06F 3/09 | G06F 3/09 |
| G06F 3/12 | G06F 3/12 |
| G06F 3/1201 | G06F 3/12 |
| G06F 3/1202 | G06F 3/12 |
| G06F 3/1203 | G06F 3/12 |
| G06F 3/1204 | G06F 3/12 |
| G06F 3/1205 | G06F 3/12 |
| G06F 3/1206 | G06F 3/12 |
| G06F 3/1207 | G06F 3/12 |
| G06F 3/1208 | G06F 3/12 |
| G06F 3/1209 | G06F 3/12 |
| G06F 3/121 | G06F 3/12 |
| G06F 3/1211 | G06F 3/12 |
| G06F 3/1212 | G06F 3/12 |
| G06F 3/1213 | G06F 3/12 |
| G06F 3/1214 | G06F 3/12 |
| G06F 3/1215 | G06F 3/12 |
| G06F 3/1217 | G06F 3/12 |
| G06F 3/1218 | G06F 3/12 |
| G06F 3/1219 | G06F 3/12 |
| G06F 3/122 | G06F 3/12 |

| CPC Group | IPC Group |
|---|---|
| G06F 3/1221 | G06F 3/12 |
| G06F 3/1222 | G06F 3/12 |
| G06F 3/1223 | G06F 3/12 |
| G06F 3/1224 | G06F 3/12 |
| G06F 3/1225 | G06F 3/12 |
| G06F 3/1226 | G06F 3/12 |
| G06F 3/1227 | G06F 3/12 |
| G06F 3/1228 | G06F 3/12 |
| G06F 3/1229 | G06F 3/12 |
| G06F 3/123 | G06F 3/12 |
| G06F 3/1231 | G06F 3/12 |
| G06F 3/1232 | G06F 3/12 |
| G06F 3/1234 | G06F 3/12 |
| G06F 3/1235 | G06F 3/12 |
| G06F 3/1236 | G06F 3/12 |
| G06F 3/1237 | G06F 3/12 |
| G06F 3/1238 | G06F 3/12 |
| G06F 3/1239 | G06F 3/12 |
| G06F 3/124 | G06F 3/12 |
| G06F 3/1241 | G06F 3/12 |
| G06F 3/1242 | G06F 3/12 |
| G06F 3/1243 | G06F 3/12 |
| G06F 3/1244 | G06F 3/12 |
| G06F 3/1245 | G06F 3/12 |

| CPC Group | IPC Group |
|---|---|
| G06F 3/1246 | G06F 3/12 |
| G06F 3/1247 | G06F 3/12 |
| G06F 3/1248 | G06F 3/12 |
| G06F 3/125 | G06F 3/12 |
| G06F 3/1251 | G06F 3/12 |
| G06F 3/1252 | G06F 3/12 |
| G06F 3/1253 | G06F 3/12 |
| G06F 3/1254 | G06F 3/12 |
| G06F 3/1255 | G06F 3/12 |
| G06F 3/1256 | G06F 3/12 |
| G06F 3/1257 | G06F 3/12 |
| G06F 3/1258 | G06F 3/12 |
| G06F 3/1259 | G06F 3/12 |
| G06F 3/126 | G06F 3/12 |
| G06F 3/1261 | G06F 3/12 |
| G06F 3/1262 | G06F 3/12 |
| G06F 3/1263 | G06F 3/12 |
| G06F 3/1264 | G06F 3/12 |
| G06F 3/1265 | G06F 3/12 |
| G06F 3/1267 | G06F 3/12 |
| G06F 3/1268 | G06F 3/12 |
| G06F 3/1269 | G06F 3/12 |
| G06F 3/127 | G06F 3/12 |
| G06F 3/1271 | G06F 3/12 |

| CPC Group | IPC Group |
|---|---|
| G06F 3/1272 | G06F 3/12 |
| G06F 3/1273 | G06F 3/12 |
| G06F 3/1274 | G06F 3/12 |
| G06F 3/1275 | G06F 3/12 |
| G06F 3/1276 | G06F 3/12 |
| G06F 3/1277 | G06F 3/12 |
| G06F 3/1278 | G06F 3/12 |
| G06F 3/1279 | G06F 3/12 |
| G06F 3/128 | G06F 3/12 |
| G06F 3/1281 | G06F 3/12 |
| G06F 3/1282 | G06F 3/12 |
| G06F 3/1284 | G06F 3/12 |
| G06F 3/1285 | G06F 3/12 |
| G06F 3/1286 | G06F 3/12 |
| G06F 3/1287 | G06F 3/12 |
| G06F 3/1288 | G06F 3/12 |
| G06F 3/1289 | G06F 3/12 |
| G06F 3/129 | G06F 3/12 |
| G06F 3/1291 | G06F 3/12 |
| G06F 3/1292 | G06F 3/12 |
| G06F 3/1293 | G06F 3/12 |
| G06F 3/1294 | G06F 3/12 |
| G06F 3/1295 | G06F 3/12 |
| G06F 3/1296 | G06F 3/12 |

| CPC Group | IPC Group |
|---|---|
| G06F 3/1297 | G06F 3/12 |
| G06F 3/1298 | G06F 3/12 |
| G06F 3/13 | G06F 3/13 |
| G06F 3/14 | G06F 3/14 |
| G06F 3/1407 | G06F 3/14 |
| G06F 3/1415 | G06F 3/14 |
| G06F 3/1423 | G06F 3/14 |
| G06F 3/1431 | G06F 3/14 |
| G06F 3/1438 | G06F 3/14 |
| G06F 3/1446 | G06F 3/14 |
| G06F 3/1454 | G06F 3/14 |
| G06F 3/1462 | G06F 3/14 |
| G06F 3/147 | G06F 3/147 |
| G06F 3/1475 | G06F 3/147 |
| G06F 3/153 | G06F 3/153 |
| G06F 3/16 | G06F 3/16 |
| G06F 3/162 | G06F 3/16 |
| G06F 3/165 | G06F 3/16 |
| G06F 3/167 | G06F 3/16 |
| G06F 5/00 | G06F 5/00 |
| G06F 5/01 | G06F 5/01 |
| G06F 5/012 | G06F 5/01 |
| G06F 5/015 | G06F 5/01 |
| G06F 5/017 | G06F 5/01 |

| CPC Group | IPC Group |
|---|---|
| G06F 5/06 | G06F 5/06 |
| G06F 5/065 | G06F 5/06 |
| G06F 5/08 | G06F 5/08 |
| G06F 5/085 | G06F 5/08 |
| G06F 5/10 | G06F 5/10 |
| G06F 5/12 | G06F 5/12 |
| G06F 5/14 | G06F 5/14 |
| G06F 5/16 | G06F 5/16 |
| G06F 7/00 | G06F 7/00 |
| G06F 7/02 | G06F 7/02 |
| G06F 7/023 | G06F 7/02 |
| G06F 7/026 | G06F 7/02 |
| G06F 7/06 | G06F 7/06 |
| G06F 7/08 | G06F 7/08 |
| G06F 7/10 | G06F 7/10 |
| G06F 7/12 | G06F 7/12 |
| G06F 7/14 | G06F 7/14 |
| G06F 7/16 | G06F 7/16 |
| G06F 7/20 | G06F 7/20 |
| G06F 7/22 | G06F 7/22 |
| G06F 7/24 | G06F 7/24 |
| G06F 7/26 | G06F 7/26 |
| G06F 7/32 | G06F 7/32 |
| G06F 7/36 | G06F 7/36 |

| CPC Group | IPC Group |
|---|---|
| G06F 7/38 | G06F 7/38 |
| G06F 7/381 | G06F 7/38 |
| G06F 7/383 | G06F 7/38 |
| G06F 7/385 | G06F 7/38 |
| G06F 7/386 | G06F 7/38 |
| G06F 7/388 | G06F 7/38 |
| G06F 7/40 | G06F 7/40 |
| G06F 7/405 | G06F 7/40 |
| G06F 7/42 | G06F 7/42 |
| G06F 7/44 | G06F 7/44 |
| G06F 7/443 | G06F 7/44 |
| G06F 7/446 | G06F 7/44 |
| G06F 7/46 | G06F 7/46 |
| G06F 7/461 | G06F 7/46 |
| G06F 7/462 | G06F 7/46 |
| G06F 7/463 | G06F 7/46 |
| G06F 7/465 | G06F 7/46 |
| G06F 7/466 | G06F 7/46 |
| G06F 7/467 | G06F 7/46 |
| G06F 7/468 | G06F 7/46 |
| G06F 7/48 | G06F 7/48 |
| G06F 7/4806 | G06F 7/48 |
| G06F 7/4812 | G06F 7/48 |
| G06F 7/4818 | G06F 7/48 |

| CPC Group | IPC Group |
|---|---|
| G06F 7/4824 | G06F 7/48 |
| G06F 7/483 | G06F 7/483 |
| G06F 7/4833 | G06F 7/483 |
| G06F 7/4836 | G06F 7/483 |
| G06F 7/485 | G06F 7/485 |
| G06F 7/487 | G06F 7/487 |
| G06F 7/4873 | G06F 7/487 |
| G06F 7/4876 | G06F 7/487 |
| G06F 7/49 | G06F 7/49 |
| G06F 7/491 | G06F 7/491 |
| G06F 7/4912 | G06F 7/491 |
| G06F 7/4915 | G06F 7/491 |
| G06F 7/4917 | G06F 7/491 |
| G06F 7/492 | G06F 7/492 |
| G06F 7/4925 | G06F 7/492 |
| G06F 7/493 | G06F 7/493 |
| G06F 7/494 | G06F 7/494 |
| G06F 7/495 | G06F 7/495 |
| G06F 7/496 | G06F 7/496 |
| G06F 7/498 | G06F 7/498 |
| G06F 7/4981 | G06F 7/498 |
| G06F 7/4983 | G06F 7/498 |
| G06F 7/4985 | G06F 7/498 |
| G06F 7/4986 | G06F 7/498 |

| CPC Group | IPC Group |
|---|---|
| G06F 7/4988 | G06F 7/498 |
| G06F 7/499 | G06F 7/499 |
| G06F 7/49905 | G06F 7/499 |
| G06F 7/4991 | G06F 7/499 |
| G06F 7/49915 | G06F 7/499 |
| G06F 7/49921 | G06F 7/499 |
| G06F 7/49926 | G06F 7/499 |
| G06F 7/49931 | G06F 7/499 |
| G06F 7/49936 | G06F 7/499 |
| G06F 7/49942 | G06F 7/499 |
| G06F 7/49947 | G06F 7/499 |
| G06F 7/49952 | G06F 7/499 |
| G06F 7/49957 | G06F 7/499 |
| G06F 7/49963 | G06F 7/499 |
| G06F 7/49968 | G06F 7/499 |
| G06F 7/49973 | G06F 7/499 |
| G06F 7/49978 | G06F 7/499 |
| G06F 7/49984 | G06F 7/499 |
| G06F 7/49989 | G06F 7/499 |
| G06F 7/49994 | G06F 7/499 |
| G06F 7/50 | G06F 7/50 |
| G06F 7/501 | G06F 7/501 |
| G06F 7/5013 | G06F 7/501 |
| G06F 7/5016 | G06F 7/501 |

| CPC Group | IPC Group |
|---|---|
| G06F 7/502 | G06F 7/502 |
| G06F 7/503 | G06F 7/503 |
| G06F 7/504 | G06F 7/504 |
| G06F 7/5045 | G06F 7/504 |
| G06F 7/505 | G06F 7/505 |
| G06F 7/5052 | G06F 7/505 |
| G06F 7/5055 | G06F 7/505 |
| G06F 7/5057 | G06F 7/505 |
| G06F 7/506 | G06F 7/506 |
| G06F 7/507 | G06F 7/507 |
| G06F 7/508 | G06F 7/508 |
| G06F 7/509 | G06F 7/509 |
| G06F 7/5095 | G06F 7/509 |
| G06F 7/52 | G06F 7/52 |
| G06F 7/523 | G06F 7/523 |
| G06F 7/5235 | G06F 7/523 |
| G06F 7/525 | G06F 7/525 |
| G06F 7/527 | G06F 7/527 |
| G06F 7/5272 | G06F 7/527 |
| G06F 7/5275 | G06F 7/527 |
| G06F 7/5277 | G06F 7/527 |
| G06F 7/53 | G06F 7/53 |
| G06F 7/5306 | G06F 7/53 |
| G06F 7/5312 | G06F 7/53 |

| CPC Group | IPC Group |
|---|---|
| G06F 7/5318 | G06F 7/53 |
| G06F 7/5324 | G06F 7/53 |
| G06F 7/533 | G06F 7/533 |
| G06F 7/5332 | G06F 7/533 |
| G06F 7/5334 | G06F 7/533 |
| G06F 7/5336 | G06F 7/533 |
| G06F 7/5338 | G06F 7/533 |
| G06F 7/535 | G06F 7/535 |
| G06F 7/537 | G06F 7/537 |
| G06F 7/5375 | G06F 7/537 |
| G06F 7/544 | G06F 7/544 |
| G06F 7/5443 | G06F 7/544 |
| G06F 7/5446 | G06F 7/544 |
| G06F 7/548 | G06F 7/548 |
| G06F 7/552 | G06F 7/552 |
| G06F 7/5525 | G06F 7/552 |
| G06F 7/556 | G06F 7/556 |
| G06F 7/57 | G06F 7/57 |
| G06F 7/575 | G06F 7/575 |
| G06F 7/58 | G06F 7/58 |
| G06F 7/582 | G06F 7/58 |
| G06F 7/584 | G06F 7/58 |
| G06F 7/586 | G06F 7/58 |
| G06F 7/588 | G06F 7/58 |

| CPC Group | IPC Group |
|---|---|
| G06F 7/60 | G06F 7/60 |
| G06F 7/602 | G06F 7/60 |
| G06F 7/605 | G06F 7/60 |
| G06F 7/607 | G06F 7/60 |
| G06F 7/62 | G06F 7/62 |
| G06F 7/64 | G06F 7/64 |
| G06F 7/66 | G06F 7/66 |
| G06F 7/68 | G06F 7/68 |
| G06F 7/70 | G06F 7/70 |
| G06F 7/72 | G06F 7/72 |
| G06F 7/721 | G06F 7/72 |
| G06F 7/722 | G06F 7/72 |
| G06F 7/723 | G06F 7/72 |
| G06F 7/724 | G06F 7/72 |
| G06F 7/725 | G06F 7/72 |
| G06F 7/726 | G06F 7/72 |
| G06F 7/727 | G06F 7/72 |
| G06F 7/728 | G06F 7/72 |
| G06F 7/729 | G06F 7/72 |
| G06F 7/74 | G06F 7/74 |
| G06F 7/76 | G06F 7/76 |
| G06F 7/762 | G06F 7/76 |
| G06F 7/764 | G06F 7/76 |
| G06F 7/766 | G06F 7/76 |

| CPC Group | IPC Group |
|---|---|
| G06F 7/768 | G06F 7/76 |
| G06F 7/78 | G06F 7/78 |
| G06F 7/785 | G06F 7/78 |
| G06F 8/00 | G06F 8/00 |
| G06F 8/10 | G06F 8/10 |
| G06F 8/20 | G06F 8/20 |
| G06F 8/22 | G06F 8/20 |
| G06F 8/24 | G06F 8/20 |
| G06F 8/30 | G06F 8/30 |
| G06F 8/31 | G06F 8/30 |
| G06F 8/311 | G06F 8/30 |
| G06F 8/312 | G06F 8/30 |
| G06F 8/313 | G06F 8/30 |
| G06F 8/3135 | G06F 8/30 |
| G06F 8/314 | G06F 8/30 |
| G06F 8/315 | G06F 8/30 |
| G06F 8/316 | G06F 8/30 |
| G06F 8/33 | G06F 8/33 |
| G06F 8/34 | G06F 8/34 |
| G06F 8/35 | G06F 8/35 |
| G06F 8/355 | G06F 8/35 |
| G06F 8/36 | G06F 8/36 |
| G06F 8/37 | G06F 8/30 |
| G06F 8/38 | G06F 8/38 |

| CPC Group | IPC Group |
|---|---|
| G06F 8/40 | G06F 8/40 |
| G06F 8/41 | G06F 8/41 |
| G06F 8/42 | G06F 8/41 |
| G06F 8/423 | G06F 8/41 |
| G06F 8/425 | G06F 8/41 |
| G06F 8/427 | G06F 8/41 |
| G06F 8/43 | G06F 8/41 |
| G06F 8/433 | G06F 8/41 |
| G06F 8/434 | G06F 8/41 |
| G06F 8/436 | G06F 8/41 |
| G06F 8/437 | G06F 8/41 |
| G06F 8/44 | G06F 8/41 |
| G06F 8/441 | G06F 8/41 |
| G06F 8/443 | G06F 8/41 |
| G06F 8/4432 | G06F 8/41 |
| G06F 8/4434 | G06F 8/41 |
| G06F 8/4435 | G06F 8/41 |
| G06F 8/4436 | G06F 8/41 |
| G06F 8/4441 | G06F 8/41 |
| G06F 8/4442 | G06F 8/41 |
| G06F 8/4443 | G06F 8/41 |
| G06F 8/445 | G06F 8/41 |
| G06F 8/4451 | G06F 8/41 |
| G06F 8/4452 | G06F 8/41 |

| CPC Group | IPC Group |
|---|---|
| G06F 8/447 | G06F 8/41 |
| G06F 8/45 | G06F 8/41 |
| G06F 8/451 | G06F 8/41 |
| G06F 8/452 | G06F 8/41 |
| G06F 8/453 | G06F 8/41 |
| G06F 8/454 | G06F 8/41 |
| G06F 8/456 | G06F 8/41 |
| G06F 8/457 | G06F 8/41 |
| G06F 8/458 | G06F 8/41 |
| G06F 8/47 | G06F 8/41 |
| G06F 8/48 | G06F 8/41 |
| G06F 8/49 | G06F 8/41 |
| G06F 8/51 | G06F 8/51 |
| G06F 8/52 | G06F 8/52 |
| G06F 8/53 | G06F 8/53 |
| G06F 8/54 | G06F 8/54 |
| G06F 8/60 | G06F 8/60 |
| G06F 8/61 | G06F 8/61 |
| G06F 8/62 | G06F 8/61 |
| G06F 8/63 | G06F 8/61 |
| G06F 8/64 | G06F 8/61 |
| G06F 8/65 | G06F 8/65 |
| G06F 8/654 | G06F 8/654 |
| G06F 8/656 | G06F 8/656 |

| CPC Group | IPC Group |
|---|---|
| G06F 8/658 | G06F 8/658 |
| G06F 8/66 | G06F 8/65 |
| G06F 8/70 | G06F 8/70 |
| G06F 8/71 | G06F 8/71 |
| G06F 8/72 | G06F 8/72 |
| G06F 8/73 | G06F 8/73 |
| G06F 8/74 | G06F 8/74 |
| G06F 8/75 | G06F 8/75 |
| G06F 8/751 | G06F 8/75 |
| G06F 8/76 | G06F 8/76 |
| G06F 8/77 | G06F 8/77 |
| G06F 8/78 | G06F 8/70 |
| G06F 9/00 | G06F 9/00 |
| G06F 9/02 | G06F 9/02 |
| G06F 9/04 | G06F 9/04 |
| G06F 9/06 | G06F 9/06 |
| G06F 9/22 | G06F 9/22 |
| G06F 9/223 | G06F 9/22 |
| G06F 9/226 | G06F 9/22 |
| G06F 9/24 | G06F 9/24 |
| G06F 9/26 | G06F 9/26 |
| G06F 9/261 | G06F 9/26 |
| G06F 9/262 | G06F 9/26 |
| G06F 9/264 | G06F 9/26 |

| CPC Group | IPC Group |
|---|---|
| G06F 9/265 | G06F 9/26 |
| G06F 9/267 | G06F 9/26 |
| G06F 9/268 | G06F 9/26 |
| G06F 9/28 | G06F 9/28 |
| G06F 9/30 | G06F 9/30 |
| G06F 9/30003 | G06F 9/30 |
| G06F 9/30007 | G06F 9/30 |
| G06F 9/3001 | G06F 9/30 |
| G06F 9/30014 | G06F 9/30 |
| G06F 9/30018 | G06F 9/30 |
| G06F 9/30021 | G06F 9/30 |
| G06F 9/30025 | G06F 9/30 |
| G06F 9/30029 | G06F 9/30 |
| G06F 9/30032 | G06F 9/30 |
| G06F 9/30036 | G06F 9/30 |
| G06F 9/30038 | G06F 9/30 |
| G06F 9/3004 | G06F 9/30 |
| G06F 9/30043 | G06F 9/30 |
| G06F 9/30047 | G06F 9/30 |
| G06F 9/3005 | G06F 9/30 |
| G06F 9/30054 | G06F 9/30 |
| G06F 9/30058 | G06F 9/30 |
| G06F 9/30061 | G06F 9/30 |
| G06F 9/30065 | G06F 9/30 |

| CPC Group | IPC Group |
|---|---|
| G06F 9/30069 | G06F 9/30 |
| G06F 9/30072 | G06F 9/30 |
| G06F 9/30076 | G06F 9/30 |
| G06F 9/30079 | G06F 9/30 |
| G06F 9/30083 | G06F 9/30 |
| G06F 9/30087 | G06F 9/30 |
| G06F 9/3009 | G06F 9/30 |
| G06F 9/30094 | G06F 9/30 |
| G06F 9/30098 | G06F 9/30 |
| G06F 9/30101 | G06F 9/30 |
| G06F 9/30105 | G06F 9/30 |
| G06F 9/30109 | G06F 9/30 |
| G06F 9/30112 | G06F 9/30 |
| G06F 9/30116 | G06F 9/30 |
| G06F 9/3012 | G06F 9/30 |
| G06F 9/30123 | G06F 9/30 |
| G06F 9/30127 | G06F 9/30 |
| G06F 9/3013 | G06F 9/30 |
| G06F 9/30134 | G06F 9/30 |
| G06F 9/30138 | G06F 9/30 |
| G06F 9/30141 | G06F 9/30 |
| G06F 9/30145 | G06F 9/30 |
| G06F 9/30149 | G06F 9/30 |
| G06F 9/30152 | G06F 9/30 |

| CPC Group | IPC Group |
|---|---|
| G06F 9/30156 | G06F 9/30 |
| G06F 9/3016 | G06F 9/30 |
| G06F 9/30163 | G06F 9/30 |
| G06F 9/30167 | G06F 9/30 |
| G06F 9/3017 | G06F 9/30 |
| G06F 9/30174 | G06F 9/30 |
| G06F 9/30178 | G06F 9/30 |
| G06F 9/30181 | G06F 9/30 |
| G06F 9/30185 | G06F 9/30 |
| G06F 9/30189 | G06F 9/30 |
| G06F 9/30192 | G06F 9/30 |
| G06F 9/30196 | G06F 9/30 |
| G06F 9/32 | G06F 9/32 |
| G06F 9/321 | G06F 9/32 |
| G06F 9/322 | G06F 9/32 |
| G06F 9/323 | G06F 9/32 |
| G06F 9/324 | G06F 9/32 |
| G06F 9/325 | G06F 9/32 |
| G06F 9/327 | G06F 9/32 |
| G06F 9/328 | G06F 9/32 |
| G06F 9/34 | G06F 9/34 |
| G06F 9/342 | G06F 9/34 |
| G06F 9/345 | G06F 9/345 |
| G06F 9/3455 | G06F 9/345 |

| CPC Group | IPC Group |
|---|---|
| G06F 9/35 | G06F 9/35 |
| G06F 9/355 | G06F 9/355 |
| G06F 9/3552 | G06F 9/355 |
| G06F 9/3555 | G06F 9/355 |
| G06F 9/3557 | G06F 9/355 |
| G06F 9/38 | G06F 9/38 |
| G06F 9/3802 | G06F 9/38 |
| G06F 9/3804 | G06F 9/38 |
| G06F 9/3806 | G06F 9/38 |
| G06F 9/3808 | G06F 9/38 |
| G06F 9/381 | G06F 9/38 |
| G06F 9/3812 | G06F 9/38 |
| G06F 9/3814 | G06F 9/38 |
| G06F 9/3816 | G06F 9/38 |
| G06F 9/3818 | G06F 9/38 |
| G06F 9/382 | G06F 9/38 |
| G06F 9/3822 | G06F 9/38 |
| G06F 9/3824 | G06F 9/38 |
| G06F 9/3826 | G06F 9/38 |
| G06F 9/3828 | G06F 9/38 |
| G06F 9/383 | G06F 9/38 |
| G06F 9/3832 | G06F 9/38 |
| G06F 9/3834 | G06F 9/38 |
| G06F 9/3836 | G06F 9/38 |

| CPC Group | IPC Group |
|---|---|
| G06F 9/3838 | G06F 9/38 |
| G06F 9/384 | G06F 9/38 |
| G06F 9/3842 | G06F 9/38 |
| G06F 9/3844 | G06F 9/38 |
| G06F 9/3846 | G06F 9/38 |
| G06F 9/3848 | G06F 9/38 |
| G06F 9/3851 | G06F 9/38 |
| G06F 9/3853 | G06F 9/38 |
| G06F 9/3854 | G06F 9/38 |
| G06F 9/3856 | G06F 9/38 |
| G06F 9/3858 | G06F 9/38 |
| G06F 9/38585 | G06F 9/38 |
| G06F 9/3861 | G06F 9/38 |
| G06F 9/3863 | G06F 9/38 |
| G06F 9/3865 | G06F 9/38 |
| G06F 9/3867 | G06F 9/38 |
| G06F 9/3869 | G06F 9/38 |
| G06F 9/3871 | G06F 9/38 |
| G06F 9/3873 | G06F 9/38 |
| G06F 9/3875 | G06F 9/38 |
| G06F 9/3877 | G06F 9/38 |
| G06F 9/3879 | G06F 9/38 |
| G06F 9/3881 | G06F 9/38 |
| G06F 2009/3883 | G06F 9/38 |

| CPC Group | IPC Group |
|---|---|
| G06F 9/3885 | G06F 9/38 |
| G06F 9/3887 | G06F 9/38 |
| G06F 9/38873 | G06F 9/38 |
| G06F 9/38875 | G06F 9/38 |
| G06F 9/3888 | G06F 9/38 |
| G06F 9/38885 | G06F 9/38 |
| G06F 9/3889 | G06F 9/38 |
| G06F 9/3891 | G06F 9/38 |
| G06F 9/3893 | G06F 9/38 |
| G06F 9/3895 | G06F 9/38 |
| G06F 9/3897 | G06F 9/38 |
| G06F 9/44 | G06F 9/44 |
| G06F 9/4401 | G06F 9/4401 |
| G06F 9/4403 | G06F 9/4401 |
| G06F 9/4405 | G06F 9/4401 |
| G06F 9/4406 | G06F 9/4401 |
| G06F 9/4408 | G06F 9/4401 |
| G06F 9/441 | G06F 9/4401 |
| G06F 9/4411 | G06F 9/4401 |
| G06F 9/4413 | G06F 9/4401 |
| G06F 9/4415 | G06F 9/4401 |
| G06F 9/4416 | G06F 9/4401 |
| G06F 9/4418 | G06F 9/4401 |
| G06F 9/442 | G06F 9/4401 |

| CPC Group | IPC Group |
|---|---|
| G06F 9/445 | G06F 9/445 |
| G06F 9/44505 | G06F 9/445 |
| G06F 9/4451 | G06F 9/445 |
| G06F 9/44521 | G06F 9/445 |
| G06F 9/44526 | G06F 9/445 |
| G06F 9/44536 | G06F 9/445 |
| G06F 9/44542 | G06F 9/445 |
| G06F 9/44547 | G06F 9/445 |
| G06F 9/44552 | G06F 9/445 |
| G06F 9/44557 | G06F 9/445 |
| G06F 9/44563 | G06F 9/445 |
| G06F 9/44568 | G06F 9/445 |
| G06F 9/44573 | G06F 9/445 |
| G06F 9/44578 | G06F 9/445 |
| G06F 9/44584 | G06F 9/445 |
| G06F 9/44589 | G06F 9/445 |
| G06F 9/44594 | G06F 9/445 |
| G06F 9/448 | G06F 9/448 |
| G06F 9/4482 | G06F 9/448 |
| G06F 9/4484 | G06F 9/448 |
| G06F 9/4486 | G06F 9/448 |
| G06F 9/4488 | G06F 9/448 |
| G06F 9/449 | G06F 9/448 |
| G06F 9/4491 | G06F 9/448 |

| CPC Group | IPC Group |
|---|---|
| G06F 9/4492 | G06F 9/448 |
| G06F 9/4493 | G06F 9/448 |
| G06F 9/4494 | G06F 9/448 |
| G06F 9/4496 | G06F 9/448 |
| G06F 9/4498 | G06F 9/448 |
| G06F 9/451 | G06F 9/451 |
| G06F 9/452 | G06F 9/451 |
| G06F 9/453 | G06F 9/451 |
| G06F 9/454 | G06F 9/451 |
| G06F 9/455 | G06F 9/455 |
| G06F 9/45504 | G06F 9/455 |
| G06F 9/45508 | G06F 9/455 |
| G06F 9/45512 | G06F 9/455 |
| G06F 9/45516 | G06F 9/455 |
| G06F 9/4552 | G06F 9/455 |
| G06F 9/45525 | G06F 9/455 |
| G06F 9/45529 | G06F 9/455 |
| G06F 9/45533 | G06F 9/455 |
| G06F 9/45537 | G06F 9/455 |
| G06F 9/45541 | G06F 9/455 |
| G06F 9/45545 | G06F 9/455 |
| G06F 9/4555 | G06F 9/455 |
| G06F 9/45554 | G06F 9/455 |
| G06F 9/45558 | G06F 9/455 |

| CPC Group | IPC Group |
|---|---|
| G06F 2009/45562 | G06F 9/455 |
| G06F 2009/45566 | G06F 9/455 |
| G06F 2009/4557 | G06F 9/455 |
| G06F 2009/45575 | G06F 9/455 |
| G06F 2009/45579 | G06F 9/455 |
| G06F 2009/45583 | G06F 9/455 |
| G06F 2009/45587 | G06F 9/455 |
| G06F 2009/45591 | G06F 9/455 |
| G06F 2009/45595 | G06F 9/455 |
| G06F 9/46 | G06F 9/46 |
| G06F 9/461 | G06F 9/46 |
| G06F 9/462 | G06F 9/46 |
| G06F 9/463 | G06F 9/46 |
| G06F 9/465 | G06F 9/46 |
| G06F 9/466 | G06F 9/46 |
| G06F 9/467 | G06F 9/46 |
| G06F 9/468 | G06F 9/46 |
| G06F 9/48 | G06F 9/48 |
| G06F 9/4806 | G06F 9/48 |
| G06F 9/4812 | G06F 9/48 |
| G06F 9/4818 | G06F 9/48 |
| G06F 9/4825 | G06F 9/48 |
| G06F 9/4831 | G06F 9/48 |
| G06F 9/4837 | G06F 9/48 |

| CPC Group | IPC Group |
|---|---|
| G06F 9/4843 | G06F 9/48 |
| G06F 9/485 | G06F 9/48 |
| G06F 9/4856 | G06F 9/48 |
| G06F 9/4862 | G06F 9/48 |
| G06F 9/4868 | G06F 9/48 |
| G06F 9/4875 | G06F 9/48 |
| G06F 9/4881 | G06F 9/48 |
| G06F 9/4887 | G06F 9/48 |
| G06F 9/4893 | G06F 9/48 |
| G06F 9/50 | G06F 9/50 |
| G06F 9/5005 | G06F 9/50 |
| G06F 9/5011 | G06F 9/50 |
| G06F 9/5016 | G06F 9/50 |
| G06F 9/5022 | G06F 9/50 |
| G06F 9/5027 | G06F 9/50 |
| G06F 9/5033 | G06F 9/50 |
| G06F 9/5038 | G06F 9/50 |
| G06F 9/5044 | G06F 9/50 |
| G06F 9/505 | G06F 9/50 |
| G06F 9/5055 | G06F 9/50 |
| G06F 9/5061 | G06F 9/50 |
| G06F 9/5066 | G06F 9/50 |
| G06F 9/5072 | G06F 9/50 |
| G06F 9/5077 | G06F 9/50 |

| CPC Group | IPC Group |
|---|---|
| G06F 9/5083 | G06F 9/50 |
| G06F 9/5088 | G06F 9/50 |
| G06F 9/5094 | G06F 9/50 |
| G06F 9/52 | G06F 9/52 |
| G06F 9/522 | G06F 9/52 |
| G06F 9/524 | G06F 9/52 |
| G06F 9/526 | G06F 9/52 |
| G06F 9/528 | G06F 9/52 |
| G06F 9/54 | G06F 9/54 |
| G06F 9/541 | G06F 9/54 |
| G06F 9/542 | G06F 9/54 |
| G06F 9/543 | G06F 9/54 |
| G06F 9/544 | G06F 9/54 |
| G06F 9/545 | G06F 9/54 |
| G06F 9/546 | G06F 9/54 |
| G06F 9/547 | G06F 9/54 |
| G06F 9/548 | G06F 9/54 |
| G06F 11/00 | G06F 11/00 |
| G06F 11/002 | G06F 11/00 |
| G06F 11/004 | G06F 11/00 |
| G06F 11/006 | G06F 11/00 |
| G06F 11/008 | G06F 11/00 |
| G06F 11/07 | G06F 11/07 |
| G06F 11/0703 | G06F 11/07 |

| CPC Group | IPC Group |
|---|---|
| G06F 11/0706 | G06F 11/07 |
| G06F 11/0709 | G06F 11/07 |
| G06F 11/0712 | G06F 11/07 |
| G06F 11/0715 | G06F 11/07 |
| G06F 11/0718 | G06F 11/07 |
| G06F 11/0721 | G06F 11/07 |
| G06F 11/0724 | G06F 11/07 |
| G06F 11/0727 | G06F 11/07 |
| G06F 11/073 | G06F 11/07 |
| G06F 11/0733 | G06F 11/07 |
| G06F 11/0736 | G06F 11/07 |
| G06F 11/0739 | G06F 11/07 |
| G06F 11/0742 | G06F 11/07 |
| G06F 11/0745 | G06F 11/07 |
| G06F 11/0748 | G06F 11/07 |
| G06F 11/0751 | G06F 11/07 |
| G06F 11/0754 | G06F 11/07 |
| G06F 11/0757 | G06F 11/07 |
| G06F 11/076 | G06F 11/07 |
| G06F 11/0763 | G06F 11/07 |
| G06F 11/0766 | G06F 11/07 |
| G06F 11/0769 | G06F 11/07 |
| G06F 11/0772 | G06F 11/07 |
| G06F 11/0775 | G06F 11/07 |

| CPC Group | IPC Group |
|---|---|
| G06F 11/0778 | G06F 11/07 |
| G06F 11/0781 | G06F 11/07 |
| G06F 11/0784 | G06F 11/07 |
| G06F 11/0787 | G06F 11/07 |
| G06F 11/079 | G06F 11/07 |
| G06F 11/0793 | G06F 11/07 |
| G06F 11/0796 | G06F 11/07 |
| G06F 11/08 | G06F 11/08 |
| G06F 11/085 | G06F 11/08 |
| G06F 11/10 | G06F 11/10 |
| G06F 11/1004 | G06F 11/10 |
| G06F 11/1008 | G06F 11/10 |
| G06F 11/1012 | G06F 11/10 |
| G06F 11/1016 | G06F 11/10 |
| G06F 11/102 | G06F 11/10 |
| G06F 11/1024 | G06F 11/10 |
| G06F 11/1028 | G06F 11/10 |
| G06F 11/1032 | G06F 11/10 |
| G06F 11/1036 | G06F 11/10 |
| G06F 11/104 | G06F 11/10 |
| G06F 11/1044 | G06F 11/10 |
| G06F 11/1048 | G06F 11/10 |
| G06F 11/1052 | G06F 11/10 |
| G06F 11/1056 | G06F 11/10 |

| CPC Group | IPC Group |
|---|---|
| G06F 11/106 | G06F 11/10 |
| G06F 11/1064 | G06F 11/10 |
| G06F 11/1068 | G06F 11/10 |
| G06F 11/1072 | G06F 11/10 |
| G06F 11/1076 | G06F 11/10 |
| G06F 11/108 | G06F 11/10 |
| G06F 11/1084 | G06F 11/10 |
| G06F 11/1088 | G06F 11/10 |
| G06F 11/1092 | G06F 11/10 |
| G06F 11/1096 | G06F 11/10 |
| G06F 11/14 | G06F 11/14 |
| G06F 11/1402 | G06F 11/14 |
| G06F 11/1405 | G06F 11/14 |
| G06F 11/1407 | G06F 11/14 |
| G06F 11/141 | G06F 11/14 |
| G06F 11/1415 | G06F 11/14 |
| G06F 11/1417 | G06F 11/14 |
| G06F 11/142 | G06F 11/14 |
| G06F 11/1423 | G06F 11/14 |
| G06F 11/1425 | G06F 11/14 |
| G06F 11/1428 | G06F 11/14 |
| G06F 11/143 | G06F 11/14 |
| G06F 11/1433 | G06F 11/14 |
| G06F 11/1435 | G06F 11/14 |

| CPC Group | IPC Group |
|---|---|
| G06F 11/1438 | G06F 11/14 |
| G06F 11/1441 | G06F 11/14 |
| G06F 11/1443 | G06F 11/14 |
| G06F 11/1446 | G06F 11/14 |
| G06F 11/1448 | G06F 11/14 |
| G06F 11/1451 | G06F 11/14 |
| G06F 11/1453 | G06F 11/14 |
| G06F 11/1456 | G06F 11/14 |
| G06F 11/1458 | G06F 11/14 |
| G06F 11/1461 | G06F 11/14 |
| G06F 11/1464 | G06F 11/14 |
| G06F 11/1466 | G06F 11/14 |
| G06F 11/1469 | G06F 11/14 |
| G06F 11/1471 | G06F 11/14 |
| G06F 11/1474 | G06F 11/14 |
| G06F 11/1476 | G06F 11/14 |
| G06F 11/1479 | G06F 11/14 |
| G06F 11/1482 | G06F 11/14 |
| G06F 11/1484 | G06F 11/14 |
| G06F 11/1487 | G06F 11/14 |
| G06F 11/1489 | G06F 11/14 |
| G06F 11/1492 | G06F 11/14 |
| G06F 11/1494 | G06F 11/14 |
| G06F 11/1497 | G06F 11/14 |

| CPC Group | IPC Group |
|---|---|
| G06F 11/16 | G06F 11/16 |
| G06F 11/1604 | G06F 11/16 |
| G06F 11/1608 | G06F 11/16 |
| G06F 11/1612 | G06F 11/16 |
| G06F 11/1616 | G06F 11/16 |
| G06F 11/162 | G06F 11/16 |
| G06F 11/1625 | G06F 11/16 |
| G06F 11/1629 | G06F 11/16 |
| G06F 11/1633 | G06F 11/16 |
| G06F 11/1637 | G06F 11/16 |
| G06F 11/1641 | G06F 11/16 |
| G06F 11/1645 | G06F 11/16 |
| G06F 11/165 | G06F 11/16 |
| G06F 11/1654 | G06F 11/16 |
| G06F 11/1658 | G06F 11/16 |
| G06F 11/1662 | G06F 11/16 |
| G06F 11/1666 | G06F 11/16 |
| G06F 11/167 | G06F 11/16 |
| G06F 11/1675 | G06F 11/16 |
| G06F 11/1679 | G06F 11/16 |
| G06F 11/1683 | G06F 11/16 |
| G06F 11/1687 | G06F 11/16 |
| G06F 11/1691 | G06F 11/16 |
| G06F 11/1695 | G06F 11/16 |

| CPC Group | IPC Group |
|---|---|
| G06F 11/18 | G06F 11/18 |
| G06F 11/181 | G06F 11/18 |
| G06F 11/182 | G06F 11/18 |
| G06F 11/183 | G06F 11/18 |
| G06F 11/184 | G06F 11/18 |
| G06F 11/185 | G06F 11/18 |
| G06F 11/186 | G06F 11/18 |
| G06F 11/187 | G06F 11/18 |
| G06F 11/188 | G06F 11/18 |
| G06F 11/20 | G06F 11/20 |
| G06F 11/2002 | G06F 11/20 |
| G06F 11/2005 | G06F 11/20 |
| G06F 11/2007 | G06F 11/20 |
| G06F 11/201 | G06F 11/20 |
| G06F 11/2012 | G06F 11/20 |
| G06F 11/2015 | G06F 11/20 |
| G06F 11/2017 | G06F 11/20 |
| G06F 11/202 | G06F 11/20 |
| G06F 11/2023 | G06F 11/20 |
| G06F 11/2025 | G06F 11/20 |
| G06F 11/2028 | G06F 11/20 |
| G06F 11/203 | G06F 11/20 |
| G06F 11/2033 | G06F 11/20 |
| G06F 11/2035 | G06F 11/20 |

| CPC Group | IPC Group |
|---|---|
| G06F 11/2038 | G06F 11/20 |
| G06F 11/2041 | G06F 11/20 |
| G06F 11/2043 | G06F 11/20 |
| G06F 11/2046 | G06F 11/20 |
| G06F 11/2048 | G06F 11/20 |
| G06F 11/2051 | G06F 11/20 |
| G06F 11/2053 | G06F 11/20 |
| G06F 11/2056 | G06F 11/20 |
| G06F 11/2058 | G06F 11/20 |
| G06F 11/2061 | G06F 11/20 |
| G06F 11/2064 | G06F 11/20 |
| G06F 11/2066 | G06F 11/20 |
| G06F 11/2069 | G06F 11/20 |
| G06F 11/2071 | G06F 11/20 |
| G06F 11/2074 | G06F 11/20 |
| G06F 11/2076 | G06F 11/20 |
| G06F 11/2079 | G06F 11/20 |
| G06F 11/2082 | G06F 11/20 |
| G06F 11/2084 | G06F 11/20 |
| G06F 11/2087 | G06F 11/20 |
| G06F 11/2089 | G06F 11/20 |
| G06F 11/2092 | G06F 11/20 |
| G06F 11/2094 | G06F 11/20 |
| G06F 11/2097 | G06F 11/20 |

| CPC Group | IPC Group |
|---|---|
| G06F 11/22 | G06F 11/22 |
| G06F 11/2205 | G06F 11/22 |
| G06F 11/221 | G06F 11/22 |
| G06F 11/2215 | G06F 11/22 |
| G06F 11/2221 | G06F 11/22 |
| G06F 11/2226 | G06F 11/22 |
| G06F 11/2231 | G06F 11/22 |
| G06F 11/2236 | G06F 11/22 |
| G06F 11/2242 | G06F 11/22 |
| G06F 11/2247 | G06F 11/22 |
| G06F 11/2252 | G06F 11/22 |
| G06F 11/2257 | G06F 11/22 |
| G06F 11/2263 | G06F 11/22 |
| G06F 11/2268 | G06F 11/22 |
| G06F 11/2273 | G06F 11/22 |
| G06F 11/2284 | G06F 11/22 |
| G06F 11/2289 | G06F 11/22 |
| G06F 11/2294 | G06F 11/22 |
| G06F 11/24 | G06F 11/24 |
| G06F 11/25 | G06F 11/25 |
| G06F 11/26 | G06F 11/26 |
| G06F 11/261 | G06F 11/26 |
| G06F 11/263 | G06F 11/263 |
| G06F 11/2635 | G06F 11/263 |

| CPC Group | IPC Group |
|---|---|
| G06F 11/267 | G06F 11/267 |
| G06F 11/27 | G06F 11/27 |
| G06F 11/273 | G06F 11/273 |
| G06F 11/2733 | G06F 11/273 |
| G06F 11/2736 | G06F 11/273 |
| G06F 11/277 | G06F 11/277 |
| G06F 11/28 | G06F 11/28 |
| G06F 11/30 | G06F 11/30 |
| G06F 11/3003 | G06F 11/30 |
| G06F 11/3006 | G06F 11/30 |
| G06F 11/301 | G06F 11/30 |
| G06F 11/3013 | G06F 11/30 |
| G06F 11/3017 | G06F 11/30 |
| G06F 11/302 | G06F 11/30 |
| G06F 11/3024 | G06F 11/30 |
| G06F 11/3027 | G06F 11/30 |
| G06F 11/3031 | G06F 11/30 |
| G06F 11/3034 | G06F 11/30 |
| G06F 11/3037 | G06F 11/30 |
| G06F 11/3041 | G06F 11/30 |
| G06F 11/3044 | G06F 11/30 |
| G06F 11/3048 | G06F 11/30 |
| G06F 11/3051 | G06F 11/30 |
| G06F 11/3055 | G06F 11/30 |

| CPC Group | IPC Group |
|---|---|
| G06F 11/3058 | G06F 11/30 |
| G06F 11/3062 | G06F 11/30 |
| G06F 11/3065 | G06F 11/30 |
| G06F 11/3068 | G06F 11/30 |
| G06F 11/3072 | G06F 11/30 |
| G06F 11/3075 | G06F 11/30 |
| G06F 11/3079 | G06F 11/30 |
| G06F 11/3082 | G06F 11/30 |
| G06F 11/3086 | G06F 11/30 |
| G06F 11/3089 | G06F 11/30 |
| G06F 11/3093 | G06F 11/30 |
| G06F 11/3096 | G06F 11/30 |
| G06F 11/32 | G06F 11/32 |
| G06F 11/321 | G06F 11/32 |
| G06F 11/322 | G06F 11/32 |
| G06F 11/323 | G06F 11/32 |
| G06F 11/324 | G06F 11/32 |
| G06F 11/325 | G06F 11/32 |
| G06F 11/326 | G06F 11/32 |
| G06F 11/327 | G06F 11/32 |
| G06F 11/328 | G06F 11/32 |
| G06F 11/34 | G06F 11/34 |
| G06F 11/3404 | G06F 11/34 |
| G06F 11/3409 | G06F 11/34 |

| CPC Group | IPC Group |
|---|---|
| G06F 11/3414 | G06F 11/34 |
| G06F 11/3419 | G06F 11/34 |
| G06F 11/3423 | G06F 11/34 |
| G06F 11/3428 | G06F 11/34 |
| G06F 11/3433 | G06F 11/34 |
| G06F 11/3438 | G06F 11/34 |
| G06F 11/3442 | G06F 11/34 |
| G06F 11/3447 | G06F 11/34 |
| G06F 11/3452 | G06F 11/34 |
| G06F 11/3457 | G06F 11/34 |
| G06F 11/3461 | G06F 11/34 |
| G06F 11/3466 | G06F 11/34 |
| G06F 11/3471 | G06F 11/34 |
| G06F 11/3476 | G06F 11/34 |
| G06F 11/348 | G06F 11/34 |
| G06F 11/3485 | G06F 11/34 |
| G06F 11/349 | G06F 11/34 |
| G06F 11/3495 | G06F 11/34 |
| G06F 11/36 | G06F 11/36 |
| G06F 11/3604 | G06F 11/36 |
| G06F 11/3608 | G06F 11/36 |
| G06F 11/3612 | G06F 11/36 |
| G06F 11/3616 | G06F 11/36 |
| G06F 11/362 | G06F 11/36 |

| CPC Group | IPC Group |
|---|---|
| G06F 11/3624 | G06F 11/36 |
| G06F 11/3628 | G06F 11/36 |
| G06F 11/3632 | G06F 11/36 |
| G06F 11/3636 | G06F 11/36 |
| G06F 11/364 | G06F 11/36 |
| G06F 11/3644 | G06F 11/36 |
| G06F 11/3648 | G06F 11/36 |
| G06F 11/3652 | G06F 11/36 |
| G06F 11/3656 | G06F 11/36 |
| G06F 11/366 | G06F 11/36 |
| G06F 11/3664 | G06F 11/36 |
| G06F 11/3668 | G06F 11/36 |
| G06F 11/3672 | G06F 11/36 |
| G06F 11/3676 | G06F 11/36 |
| G06F 11/368 | G06F 11/36 |
| G06F 11/3684 | G06F 11/36 |
| G06F 11/3688 | G06F 11/36 |
| G06F 11/3692 | G06F 11/36 |
| G06F 11/3696 | G06F 11/36 |
| G06F 12/00 | G06F 12/00 |
| G06F 12/02 | G06F 12/02 |
| G06F 12/0207 | G06F 12/02 |
| G06F 12/0215 | G06F 12/02 |
| G06F 12/0223 | G06F 12/02 |

| CPC Group | IPC Group |
|---|---|
| G06F 12/023 | G06F 12/02 |
| G06F 12/0238 | G06F 12/02 |
| G06F 12/0246 | G06F 12/02 |
| G06F 12/0253 | G06F 12/02 |
| G06F 12/0261 | G06F 12/02 |
| G06F 12/0269 | G06F 12/02 |
| G06F 12/0276 | G06F 12/02 |
| G06F 12/0284 | G06F 12/02 |
| G06F 12/0292 | G06F 12/02 |
| G06F 12/04 | G06F 12/04 |
| G06F 12/06 | G06F 12/06 |
| G06F 12/0607 | G06F 12/06 |
| G06F 12/0615 | G06F 12/06 |
| G06F 12/0623 | G06F 12/06 |
| G06F 12/063 | G06F 12/06 |
| G06F 12/0638 | G06F 12/06 |
| G06F 12/0646 | G06F 12/06 |
| G06F 12/0653 | G06F 12/06 |
| G06F 12/0661 | G06F 12/06 |
| G06F 12/0669 | G06F 12/06 |
| G06F 12/0676 | G06F 12/06 |
| G06F 12/0684 | G06F 12/06 |
| G06F 12/0692 | G06F 12/06 |
| G06F 12/08 | G06F 12/08 |

| CPC Group | IPC Group |
|---|---|
| G06F 12/0802 | G06F 12/0802 |
| G06F 12/0804 | G06F 12/0804 |
| G06F 12/0806 | G06F 12/0806 |
| G06F 12/0808 | G06F 12/0808 |
| G06F 12/0811 | G06F 12/0811 |
| G06F 12/0813 | G06F 12/0813 |
| G06F 12/0815 | G06F 12/0815 |
| G06F 12/0817 | G06F 12/0817 |
| G06F 12/082 | G06F 12/0817 |
| G06F 12/0822 | G06F 12/0817 |
| G06F 12/0824 | G06F 12/0817 |
| G06F 12/0826 | G06F 12/0817 |
| G06F 12/0828 | G06F 12/0817 |
| G06F 12/0831 | G06F 12/0831 |
| G06F 12/0833 | G06F 12/0831 |
| G06F 12/0835 | G06F 12/0831 |
| G06F 12/0837 | G06F 12/0837 |
| G06F 12/084 | G06F 12/084 |
| G06F 12/0842 | G06F 12/0842 |
| G06F 12/0844 | G06F 12/0844 |
| G06F 12/0846 | G06F 12/0846 |
| G06F 12/0848 | G06F 12/0846 |
| G06F 12/0851 | G06F 12/0846 |
| G06F 12/0853 | G06F 12/0853 |

| CPC Group | IPC Group |
|---|---|
| G06F 12/0855 | G06F 12/0855 |
| G06F 12/0857 | G06F 12/0855 |
| G06F 12/0859 | G06F 12/0855 |
| G06F 12/0862 | G06F 12/0862 |
| G06F 12/0864 | G06F 12/0864 |
| G06F 12/0866 | G06F 12/0866 |
| G06F 12/0868 | G06F 12/0868 |
| G06F 12/0871 | G06F 12/0871 |
| G06F 12/0873 | G06F 12/0873 |
| G06F 12/0875 | G06F 12/0875 |
| G06F 12/0877 | G06F 12/0877 |
| G06F 12/0879 | G06F 12/0879 |
| G06F 12/0882 | G06F 12/0882 |
| G06F 12/0884 | G06F 12/0884 |
| G06F 12/0886 | G06F 12/0886 |
| G06F 12/0888 | G06F 12/0888 |
| G06F 12/0891 | G06F 12/0891 |
| G06F 12/0893 | G06F 12/0893 |
| G06F 12/0895 | G06F 12/0895 |
| G06F 12/0897 | G06F 12/0897 |
| G06F 12/10 | G06F 12/10 |
| G06F 12/1009 | G06F 12/1009 |
| G06F 12/1018 | G06F 12/1018 |
| G06F 12/1027 | G06F 12/1027 |

| CPC Group | IPC Group |
|---|---|
| G06F 12/1036 | G06F 12/1036 |
| G06F 12/1045 | G06F 12/1045 |
| G06F 12/1054 | G06F 12/1045 |
| G06F 12/1063 | G06F 12/1045 |
| G06F 12/1072 | G06F 12/1072 |
| G06F 12/1081 | G06F 12/1081 |
| G06F 12/109 | G06F 12/109 |
| G06F 12/12 | G06F 12/12 |
| G06F 12/121 | G06F 12/121 |
| G06F 12/122 | G06F 12/122 |
| G06F 12/123 | G06F 12/123 |
| G06F 12/124 | G06F 12/123 |
| G06F 12/125 | G06F 12/123 |
| G06F 12/126 | G06F 12/126 |
| G06F 12/127 | G06F 12/127 |
| G06F 12/128 | G06F 12/128 |
| G06F 12/14 | G06F 12/14 |
| G06F 12/1408 | G06F 12/14 |
| G06F 12/1416 | G06F 12/14 |
| G06F 12/1425 | G06F 12/14 |
| G06F 12/1433 | G06F 12/14 |
| G06F 12/1441 | G06F 12/14 |
| G06F 12/145 | G06F 12/14 |
| G06F 12/1458 | G06F 12/14 |

| CPC Group | IPC Group |
|---|---|
| G06F 12/1466 | G06F 12/14 |
| G06F 12/1475 | G06F 12/14 |
| G06F 12/1483 | G06F 12/14 |
| G06F 12/1491 | G06F 12/14 |
| G06F 12/16 | G06F 12/16 |
| G06F 13/00 | G06F 13/00 |
| G06F 13/10 | G06F 13/10 |
| G06F 13/102 | G06F 13/10 |
| G06F 13/105 | G06F 13/10 |
| G06F 13/107 | G06F 13/10 |
| G06F 13/12 | G06F 13/12 |
| G06F 13/122 | G06F 13/12 |
| G06F 13/124 | G06F 13/12 |
| G06F 13/126 | G06F 13/12 |
| G06F 13/128 | G06F 13/12 |
| G06F 13/14 | G06F 13/14 |
| G06F 13/16 | G06F 13/16 |
| G06F 13/1605 | G06F 13/16 |
| G06F 13/161 | G06F 13/16 |
| G06F 13/1615 | G06F 13/16 |
| G06F 13/1621 | G06F 13/16 |
| G06F 13/1626 | G06F 13/16 |
| G06F 13/1631 | G06F 13/16 |
| G06F 13/1636 | G06F 13/16 |

| CPC Group | IPC Group |
|---|---|
| G06F 13/1642 | G06F 13/16 |
| G06F 13/1647 | G06F 13/16 |
| G06F 13/1652 | G06F 13/16 |
| G06F 13/1657 | G06F 13/16 |
| G06F 13/1663 | G06F 13/16 |
| G06F 13/1668 | G06F 13/16 |
| G06F 13/1673 | G06F 13/16 |
| G06F 13/1678 | G06F 13/16 |
| G06F 13/1684 | G06F 13/16 |
| G06F 13/1689 | G06F 13/16 |
| G06F 13/1694 | G06F 13/16 |
| G06F 13/18 | G06F 13/18 |
| G06F 13/20 | G06F 13/20 |
| G06F 13/22 | G06F 13/22 |
| G06F 13/225 | G06F 13/22 |
| G06F 13/24 | G06F 13/24 |
| G06F 13/26 | G06F 13/26 |
| G06F 13/28 | G06F 13/28 |
| G06F 13/282 | G06F 13/28 |
| G06F 13/285 | G06F 13/28 |
| G06F 13/287 | G06F 13/28 |
| G06F 13/30 | G06F 13/30 |
| G06F 13/32 | G06F 13/32 |
| G06F 13/34 | G06F 13/34 |

| CPC Group | IPC Group |
|---|---|
| G06F 13/36 | G06F 13/36 |
| G06F 13/362 | G06F 13/362 |
| G06F 13/3625 | G06F 13/362 |
| G06F 13/364 | G06F 13/364 |
| G06F 13/366 | G06F 13/366 |
| G06F 13/368 | G06F 13/368 |
| G06F 13/37 | G06F 13/37 |
| G06F 13/372 | G06F 13/372 |
| G06F 13/374 | G06F 13/374 |
| G06F 13/376 | G06F 13/376 |
| G06F 13/378 | G06F 13/378 |
| G06F 13/38 | G06F 13/38 |
| G06F 13/382 | G06F 13/38 |
| G06F 13/385 | G06F 13/38 |
| G06F 13/387 | G06F 13/38 |
| G06F 13/40 | G06F 13/40 |
| G06F 13/4004 | G06F 13/40 |
| G06F 13/4009 | G06F 13/40 |
| G06F 13/4013 | G06F 13/40 |
| G06F 13/4018 | G06F 13/40 |
| G06F 13/4022 | G06F 13/40 |
| G06F 13/4027 | G06F 13/40 |
| G06F 13/4031 | G06F 13/40 |
| G06F 13/4036 | G06F 13/40 |

| CPC Group | IPC Group |
|---|---|
| G06F 13/404 | G06F 13/40 |
| G06F 13/4045 | G06F 13/40 |
| G06F 13/405 | G06F 13/40 |
| G06F 13/4054 | G06F 13/40 |
| G06F 13/4059 | G06F 13/40 |
| G06F 13/4063 | G06F 13/40 |
| G06F 13/4068 | G06F 13/40 |
| G06F 13/4072 | G06F 13/40 |
| G06F 13/4077 | G06F 13/40 |
| G06F 13/4081 | G06F 13/40 |
| G06F 13/4086 | G06F 13/40 |
| G06F 13/409 | G06F 13/40 |
| G06F 13/4095 | G06F 13/40 |
| G06F 13/42 | G06F 13/42 |
| G06F 13/4204 | G06F 13/42 |
| G06F 13/4208 | G06F 13/42 |
| G06F 13/4213 | G06F 13/42 |
| G06F 13/4217 | G06F 13/42 |
| G06F 13/4221 | G06F 13/42 |
| G06F 13/4226 | G06F 13/42 |
| G06F 13/423 | G06F 13/42 |
| G06F 13/4234 | G06F 13/42 |
| G06F 13/4239 | G06F 13/42 |
| G06F 13/4243 | G06F 13/42 |

| CPC Group | IPC Group |
|---|---|
| G06F 13/4247 | G06F 13/42 |
| G06F 13/4252 | G06F 13/42 |
| G06F 13/4256 | G06F 13/42 |
| G06F 13/426 | G06F 13/42 |
| G06F 13/4265 | G06F 13/42 |
| G06F 13/4269 | G06F 13/42 |
| G06F 13/4273 | G06F 13/42 |
| G06F 13/4278 | G06F 13/42 |
| G06F 13/4282 | G06F 13/42 |
| G06F 13/4286 | G06F 13/42 |
| G06F 13/4291 | G06F 13/42 |
| G06F 13/4295 | G06F 13/42 |
| G06F 15/00 | G06F 15/00 |
| G06F 15/02 | G06F 15/02 |
| G06F 15/0208 | G06F 15/02 |
| G06F 15/0216 | G06F 15/02 |
| G06F 15/0225 | G06F 15/02 |
| G06F 15/0233 | G06F 15/02 |
| G06F 15/0241 | G06F 15/02 |
| G06F 15/025 | G06F 15/02 |
| G06F 15/0258 | G06F 15/02 |
| G06F 15/0266 | G06F 15/02 |
| G06F 15/0275 | G06F 15/02 |
| G06F 15/0283 | G06F 15/02 |

| CPC Group | IPC Group |
|---|---|
| G06F 15/0291 | G06F 15/02 |
| G06F 15/04 | G06F 15/04 |
| G06F 15/08 | G06F 15/08 |
| G06F 15/10 | G06F 15/10 |
| G06F 15/12 | G06F 15/12 |
| G06F 15/14 | G06F 15/14 |
| G06F 15/16 | G06F 15/16 |
| G06F 15/161 | G06F 15/16 |
| G06F 15/163 | G06F 15/163 |
| G06F 15/167 | G06F 15/167 |
| G06F 15/17 | G06F 15/17 |
| G06F 15/173 | G06F 15/173 |
| G06F 15/17306 | G06F 15/173 |
| G06F 15/17312 | G06F 15/173 |
| G06F 15/17318 | G06F 15/173 |
| G06F 15/17325 | G06F 15/173 |
| G06F 15/17331 | G06F 15/173 |
| G06F 15/17337 | G06F 15/173 |
| G06F 15/17343 | G06F 15/173 |
| G06F 15/1735 | G06F 15/173 |
| G06F 15/17356 | G06F 15/173 |
| G06F 15/17362 | G06F 15/173 |
| G06F 15/17368 | G06F 15/173 |
| G06F 15/17375 | G06F 15/173 |

| CPC Group | IPC Group |
|---|---|
| G06F 15/17381 | G06F 15/173 |
| G06F 15/17387 | G06F 15/173 |
| G06F 15/17393 | G06F 15/173 |
| G06F 15/177 | G06F 15/177 |
| G06F 15/76 | G06F 15/76 |
| G06F 2015/761 | G06F 15/76 |
| G06F 2015/763 | G06F 15/76 |
| G06F 2015/765 | G06F 15/76 |
| G06F 2015/766 | G06F 15/76 |
| G06F 2015/768 | G06F 15/76 |
| G06F 15/78 | G06F 15/78 |
| G06F 15/7803 | G06F 15/78 |
| G06F 15/7807 | G06F 15/78 |
| G06F 15/781 | G06F 15/78 |
| G06F 15/7814 | G06F 15/78 |
| G06F 15/7817 | G06F 15/78 |
| G06F 15/7821 | G06F 15/78 |
| G06F 15/7825 | G06F 15/78 |
| G06F 15/7828 | G06F 15/78 |
| G06F 15/7832 | G06F 15/78 |
| G06F 15/7835 | G06F 15/78 |
| G06F 15/7839 | G06F 15/78 |
| G06F 15/7842 | G06F 15/78 |
| G06F 15/7846 | G06F 15/78 |

| CPC Group | IPC Group |
|---|---|
| G06F 15/785 | G06F 15/78 |
| G06F 15/7853 | G06F 15/78 |
| G06F 15/7857 | G06F 15/78 |
| G06F 15/786 | G06F 15/78 |
| G06F 15/7864 | G06F 15/78 |
| G06F 15/7867 | G06F 15/78 |
| G06F 15/7871 | G06F 15/78 |
| G06F 15/7875 | G06F 15/78 |
| G06F 15/7878 | G06F 15/78 |
| G06F 15/7882 | G06F 15/78 |
| G06F 15/7885 | G06F 15/78 |
| G06F 15/7889 | G06F 15/78 |
| G06F 15/7892 | G06F 15/78 |
| G06F 15/7896 | G06F 15/78 |
| G06F 15/80 | G06F 15/80 |
| G06F 15/8007 | G06F 15/80 |
| G06F 15/8015 | G06F 15/80 |
| G06F 15/8023 | G06F 15/80 |
| G06F 15/803 | G06F 15/80 |
| G06F 15/8038 | G06F 15/80 |
| G06F 15/8046 | G06F 15/80 |
| G06F 15/8053 | G06F 15/80 |
| G06F 15/8061 | G06F 15/80 |
| G06F 15/8069 | G06F 15/80 |

| CPC Group | IPC Group |
|---|---|
| G06F 15/8076 | G06F 15/80 |
| G06F 15/8084 | G06F 15/80 |
| G06F 15/8092 | G06F 15/80 |
| G06F 15/82 | G06F 15/82 |
| G06F 15/825 | G06F 15/82 |
| G06F 16/00 | G06F 16/00 |
| G06F 16/10 | G06F 16/10 |
| G06F 16/11 | G06F 16/11 |
| G06F 16/113 | G06F 16/11 |
| G06F 16/116 | G06F 16/11 |
| G06F 16/119 | G06F 16/11 |
| G06F 16/122 | G06F 16/11 |
| G06F 16/125 | G06F 16/11 |
| G06F 16/128 | G06F 16/11 |
| G06F 16/13 | G06F 16/13 |
| G06F 16/134 | G06F 16/13 |
| G06F 16/137 | G06F 16/13 |
| G06F 16/14 | G06F 16/14 |
| G06F 16/144 | G06F 16/14 |
| G06F 16/148 | G06F 16/14 |
| G06F 16/152 | G06F 16/14 |
| G06F 16/156 | G06F 16/14 |
| G06F 16/16 | G06F 16/16 |
| G06F 16/162 | G06F 16/16 |

| CPC Group | IPC Group |
|---|---|
| G06F 16/164 | G06F 16/16 |
| G06F 16/166 | G06F 16/16 |
| G06F 16/168 | G06F 16/16 |
| G06F 16/17 | G06F 16/17 |
| G06F 16/172 | G06F 16/172 |
| G06F 16/1724 | G06F 16/17 |
| G06F 16/1727 | G06F 16/17 |
| G06F 16/173 | G06F 16/17 |
| G06F 16/1734 | G06F 16/17 |
| G06F 16/1737 | G06F 16/17 |
| G06F 16/174 | G06F 16/174 |
| G06F 16/1744 | G06F 16/174 |
| G06F 16/1748 | G06F 16/174 |
| G06F 16/1752 | G06F 16/174 |
| G06F 16/1756 | G06F 16/174 |
| G06F 16/176 | G06F 16/176 |
| G06F 16/1767 | G06F 16/176 |
| G06F 16/1774 | G06F 16/176 |
| G06F 16/178 | G06F 16/178 |
| G06F 16/1787 | G06F 16/178 |
| G06F 16/1794 | G06F 16/178 |
| G06F 16/18 | G06F 16/18 |
| G06F 16/1805 | G06F 16/18 |
| G06F 16/181 | G06F 16/18 |

| CPC Group | IPC Group |
|---|---|
| G06F 16/1815 | G06F 16/18 |
| G06F 16/182 | G06F 16/182 |
| G06F 16/1824 | G06F 16/182 |
| G06F 16/1827 | G06F 16/182 |
| G06F 16/183 | G06F 16/182 |
| G06F 16/1834 | G06F 16/182 |
| G06F 16/1837 | G06F 16/182 |
| G06F 16/184 | G06F 16/182 |
| G06F 16/1844 | G06F 16/182 |
| G06F 16/1847 | G06F 16/18 |
| G06F 16/185 | G06F 16/185 |
| G06F 16/1858 | G06F 16/18 |
| G06F 16/1865 | G06F 16/18 |
| G06F 16/1873 | G06F 16/18 |
| G06F 16/188 | G06F 16/188 |
| G06F 16/192 | G06F 16/188 |
| G06F 16/196 | G06F 16/188 |
| G06F 16/20 | G06F 16/20 |
| G06F 16/21 | G06F 16/21 |
| G06F 16/211 | G06F 16/21 |
| G06F 16/212 | G06F 16/21 |
| G06F 16/213 | G06F 16/21 |
| G06F 16/214 | G06F 16/21 |
| G06F 16/215 | G06F 16/215 |

| CPC Group | IPC Group |
|---|---|
| G06F 16/217 | G06F 16/21 |
| G06F 16/219 | G06F 16/21 |
| G06F 16/22 | G06F 16/22 |
| G06F 16/221 | G06F 16/22 |
| G06F 16/2219 | G06F 16/22 |
| G06F 16/2228 | G06F 16/22 |
| G06F 16/2237 | G06F 16/22 |
| G06F 16/2246 | G06F 16/22 |
| G06F 16/2255 | G06F 16/22 |
| G06F 16/2264 | G06F 16/22 |
| G06F 16/2272 | G06F 16/22 |
| G06F 16/2282 | G06F 16/22 |
| G06F 16/2291 | G06F 16/22 |
| G06F 16/23 | G06F 16/23 |
| G06F 16/2308 | G06F 16/23 |
| G06F 16/2315 | G06F 16/23 |
| G06F 16/2322 | G06F 16/23 |
| G06F 16/2329 | G06F 16/23 |
| G06F 16/2336 | G06F 16/23 |
| G06F 16/2343 | G06F 16/23 |
| G06F 16/235 | G06F 16/23 |
| G06F 16/2358 | G06F 16/23 |
| G06F 16/2365 | G06F 16/23 |
| G06F 16/2372 | G06F 16/23 |

| CPC Group | IPC Group |
|---|---|
| G06F 16/2379 | G06F 16/23 |
| G06F 16/2386 | G06F 16/23 |
| G06F 16/2393 | G06F 16/23 |
| G06F 16/24 | G06F 16/24 |
| G06F 16/242 | G06F 16/242 |
| G06F 16/2423 | G06F 16/242 |
| G06F 16/2425 | G06F 16/242 |
| G06F 16/2428 | G06F 16/242 |
| G06F 16/243 | G06F 16/242 |
| G06F 16/2433 | G06F 16/242 |
| G06F 16/2435 | G06F 16/242 |
| G06F 16/2438 | G06F 16/242 |
| G06F 16/244 | G06F 16/242 |
| G06F 16/2443 | G06F 16/242 |
| G06F 16/2445 | G06F 16/242 |
| G06F 16/2448 | G06F 16/242 |
| G06F 16/245 | G06F 16/245 |
| G06F 16/2452 | G06F 16/2452 |
| G06F 16/24522 | G06F 16/2452 |
| G06F 16/24524 | G06F 16/2452 |
| G06F 16/24526 | G06F 16/2452 |
| G06F 16/24528 | G06F 16/2452 |
| G06F 16/2453 | G06F 16/2453 |
| G06F 16/24532 | G06F 16/2453 |

| CPC Group | IPC Group |
|---|---|
| G06F 16/24534 | G06F 16/2453 |
| G06F 16/24535 | G06F 16/2453 |
| G06F 16/24537 | G06F 16/2453 |
| G06F 16/24539 | G06F 16/2453 |
| G06F 16/2454 | G06F 16/2453 |
| G06F 16/24542 | G06F 16/2453 |
| G06F 16/24544 | G06F 16/2453 |
| G06F 16/24545 | G06F 16/2453 |
| G06F 16/24547 | G06F 16/2453 |
| G06F 16/24549 | G06F 16/2453 |
| G06F 16/2455 | G06F 16/2455 |
| G06F 16/24552 | G06F 16/2455 |
| G06F 16/24553 | G06F 16/2455 |
| G06F 16/24554 | G06F 16/2455 |
| G06F 16/24556 | G06F 16/2455 |
| G06F 16/24557 | G06F 16/2455 |
| G06F 16/24558 | G06F 16/2455 |
| G06F 16/2456 | G06F 16/2455 |
| G06F 16/24561 | G06F 16/2455 |
| G06F 16/24562 | G06F 16/2455 |
| G06F 16/24564 | G06F 16/2455 |
| G06F 16/24565 | G06F 16/2455 |
| G06F 16/24566 | G06F 16/2455 |
| G06F 16/24568 | G06F 16/2455 |

| CPC Group | IPC Group |
|---|---|
| G06F 16/24569 | G06F 16/245 |
| G06F 16/2457 | G06F 16/2457 |
| G06F 16/24573 | G06F 16/2457 |
| G06F 16/24575 | G06F 16/2457 |
| G06F 16/24578 | G06F 16/2457 |
| G06F 16/2458 | G06F 16/2458 |
| G06F 16/2462 | G06F 16/2458 |
| G06F 16/2465 | G06F 16/2458 |
| G06F 16/2468 | G06F 16/2458 |
| G06F 16/2471 | G06F 16/2458 |
| G06F 16/2474 | G06F 16/2458 |
| G06F 16/2477 | G06F 16/2458 |
| G06F 16/248 | G06F 16/248 |
| G06F 16/25 | G06F 16/25 |
| G06F 16/252 | G06F 16/25 |
| G06F 16/254 | G06F 16/25 |
| G06F 16/256 | G06F 16/25 |
| G06F 16/258 | G06F 16/25 |
| G06F 16/26 | G06F 16/26 |
| G06F 16/27 | G06F 16/27 |
| G06F 16/273 | G06F 16/27 |
| G06F 16/275 | G06F 16/27 |
| G06F 16/278 | G06F 16/27 |
| G06F 16/28 | G06F 16/28 |

| CPC Group | IPC Group |
|---|---|
| G06F 16/282 | G06F 16/28 |
| G06F 16/283 | G06F 16/28 |
| G06F 16/284 | G06F 16/28 |
| G06F 16/285 | G06F 16/28 |
| G06F 16/287 | G06F 16/28 |
| G06F 16/288 | G06F 16/28 |
| G06F 16/289 | G06F 16/28 |
| G06F 16/29 | G06F 16/29 |
| G06F 16/30 | G06F 16/30 |
| G06F 16/31 | G06F 16/31 |
| G06F 16/313 | G06F 16/31 |
| G06F 16/316 | G06F 16/31 |
| G06F 16/319 | G06F 16/31 |
| G06F 16/322 | G06F 16/31 |
| G06F 16/325 | G06F 16/31 |
| G06F 16/328 | G06F 16/31 |
| G06F 16/33 | G06F 16/33 |
| G06F 16/332 | G06F 16/332 |
| G06F 16/3322 | G06F 16/332 |
| G06F 16/3323 | G06F 16/332 |
| G06F 16/3325 | G06F 16/332 |
| G06F 16/3326 | G06F 16/332 |
| G06F 16/3328 | G06F 16/332 |
| G06F 16/3329 | G06F 16/332 |

| CPC Group | IPC Group |
|---|---|
| G06F 16/3331 | G06F 16/33 |
| G06F 16/3332 | G06F 16/33 |
| G06F 16/3334 | G06F 16/33 |
| G06F 16/3335 | G06F 16/33 |
| G06F 16/3337 | G06F 16/33 |
| G06F 16/3338 | G06F 16/33 |
| G06F 16/334 | G06F 16/33 |
| G06F 16/3341 | G06F 16/33 |
| G06F 16/3343 | G06F 16/33 |
| G06F 16/3344 | G06F 16/33 |
| G06F 16/3346 | G06F 16/33 |
| G06F 16/3347 | G06F 16/33 |
| G06F 16/3349 | G06F 16/33 |
| G06F 16/335 | G06F 16/335 |
| G06F 16/337 | G06F 16/335 |
| G06F 16/338 | G06F 16/338 |
| G06F 16/34 | G06F 16/34 |
| G06F 16/345 | G06F 16/34 |
| G06F 16/35 | G06F 16/35 |
| G06F 16/353 | G06F 16/35 |
| G06F 16/355 | G06F 16/35 |
| G06F 16/358 | G06F 16/35 |
| G06F 16/36 | G06F 16/36 |
| G06F 16/367 | G06F 16/36 |

| CPC Group | IPC Group |
|---|---|
| G06F 16/374 | G06F 16/36 |
| G06F 16/38 | G06F 16/38 |
| G06F 16/381 | G06F 16/38 |
| G06F 16/382 | G06F 16/38 |
| G06F 16/383 | G06F 16/383 |
| G06F 16/387 | G06F 16/387 |
| G06F 16/40 | G06F 16/40 |
| G06F 16/41 | G06F 16/41 |
| G06F 16/43 | G06F 16/43 |
| G06F 16/432 | G06F 16/432 |
| G06F 16/433 | G06F 16/432 |
| G06F 16/434 | G06F 16/432 |
| G06F 16/435 | G06F 16/435 |
| G06F 16/436 | G06F 16/435 |
| G06F 16/437 | G06F 16/435 |
| G06F 16/438 | G06F 16/438 |
| G06F 16/4387 | G06F 16/438 |
| G06F 16/4393 | G06F 16/438 |
| G06F 16/44 | G06F 16/44 |
| G06F 16/444 | G06F 16/44 |
| G06F 16/447 | G06F 16/44 |
| G06F 16/45 | G06F 16/45 |
| G06F 16/48 | G06F 16/48 |
| G06F 16/483 | G06F 16/483 |

| CPC Group | IPC Group |
|---|---|
| G06F 16/487 | G06F 16/487 |
| G06F 16/489 | G06F 16/48 |
| G06F 16/50 | G06F 16/50 |
| G06F 16/51 | G06F 16/51 |
| G06F 16/53 | G06F 16/53 |
| G06F 16/532 | G06F 16/532 |
| G06F 16/535 | G06F 16/535 |
| G06F 16/538 | G06F 16/538 |
| G06F 16/54 | G06F 16/54 |
| G06F 16/55 | G06F 16/55 |
| G06F 16/56 | G06F 16/56 |
| G06F 16/58 | G06F 16/58 |
| G06F 16/583 | G06F 16/583 |
| G06F 16/5838 | G06F 16/583 |
| G06F 16/5846 | G06F 16/583 |
| G06F 16/5854 | G06F 16/583 |
| G06F 16/5862 | G06F 16/583 |
| G06F 16/5866 | G06F 16/58 |
| G06F 16/587 | G06F 16/587 |
| G06F 16/60 | G06F 16/60 |
| G06F 16/61 | G06F 16/61 |
| G06F 16/63 | G06F 16/63 |
| G06F 16/632 | G06F 16/632 |
| G06F 16/634 | G06F 16/632 |

| CPC Group | IPC Group |
|---|---|
| G06F 16/635 | G06F 16/635 |
| G06F 16/636 | G06F 16/635 |
| G06F 16/637 | G06F 16/635 |
| G06F 16/638 | G06F 16/638 |
| G06F 16/639 | G06F 16/638 |
| G06F 16/64 | G06F 16/64 |
| G06F 16/65 | G06F 16/65 |
| G06F 16/68 | G06F 16/68 |
| G06F 16/683 | G06F 16/683 |
| G06F 16/685 | G06F 16/683 |
| G06F 16/686 | G06F 16/68 |
| G06F 16/687 | G06F 16/687 |
| G06F 16/70 | G06F 16/70 |
| G06F 16/71 | G06F 16/71 |
| G06F 16/73 | G06F 16/73 |
| G06F 16/732 | G06F 16/732 |
| G06F 16/7328 | G06F 16/732 |
| G06F 16/7335 | G06F 16/732 |
| G06F 16/7343 | G06F 16/732 |
| G06F 16/735 | G06F 16/735 |
| G06F 16/738 | G06F 16/738 |
| G06F 16/739 | G06F 16/738 |
| G06F 16/74 | G06F 16/74 |
| G06F 16/743 | G06F 16/74 |

| CPC Group | IPC Group |
|---|---|
| G06F 16/745 | G06F 16/74 |
| G06F 16/748 | G06F 16/74 |
| G06F 16/75 | G06F 16/75 |
| G06F 16/78 | G06F 16/78 |
| G06F 16/783 | G06F 16/783 |
| G06F 16/7834 | G06F 16/783 |
| G06F 16/7837 | G06F 16/783 |
| G06F 16/784 | G06F 16/783 |
| G06F 16/7844 | G06F 16/783 |
| G06F 16/7847 | G06F 16/783 |
| G06F 16/785 | G06F 16/783 |
| G06F 16/7854 | G06F 16/783 |
| G06F 16/7857 | G06F 16/783 |
| G06F 16/786 | G06F 16/783 |
| G06F 16/7864 | G06F 16/783 |
| G06F 16/7867 | G06F 16/78 |
| G06F 16/787 | G06F 16/787 |
| G06F 16/80 | G06F 16/80 |
| G06F 16/81 | G06F 16/81 |
| G06F 16/83 | G06F 16/83 |
| G06F 16/832 | G06F 16/832 |
| G06F 16/835 | G06F 16/835 |
| G06F 16/8358 | G06F 16/835 |
| G06F 16/8365 | G06F 16/835 |

| CPC Group | IPC Group |
|---|---|
| G06F 16/8373 | G06F 16/835 |
| G06F 16/838 | G06F 16/838 |
| G06F 16/84 | G06F 16/84 |
| G06F 16/86 | G06F 16/84 |
| G06F 16/88 | G06F 16/84 |
| G06F 16/90 | G06F 16/90 |
| G06F 16/901 | G06F 16/901 |
| G06F 16/9014 | G06F 16/901 |
| G06F 16/9017 | G06F 16/901 |
| G06F 16/902 | G06F 16/901 |
| G06F 16/9024 | G06F 16/901 |
| G06F 16/9027 | G06F 16/901 |
| G06F 16/903 | G06F 16/903 |
| G06F 16/9032 | G06F 16/9032 |
| G06F 16/90324 | G06F 16/9032 |
| G06F 16/90328 | G06F 16/9032 |
| G06F 16/90332 | G06F 16/9032 |
| G06F 16/90335 | G06F 16/903 |
| G06F 16/90339 | G06F 16/903 |
| G06F 16/90344 | G06F 16/903 |
| G06F 16/90348 | G06F 16/903 |
| G06F 16/9035 | G06F 16/9035 |
| G06F 16/9038 | G06F 16/9038 |
| G06F 16/904 | G06F 16/904 |

| CPC Group | IPC Group |
|---|---|
| G06F 16/906 | G06F 16/906 |
| G06F 16/907 | G06F 16/907 |
| G06F 16/908 | G06F 16/908 |
| G06F 16/909 | G06F 16/909 |
| G06F 16/93 | G06F 16/93 |
| G06F 16/94 | G06F 16/93 |
| G06F 16/95 | G06F 16/95 |
| G06F 16/951 | G06F 16/951 |
| G06F 16/953 | G06F 16/953 |
| G06F 16/9532 | G06F 16/9532 |
| G06F 16/9535 | G06F 16/9535 |
| G06F 16/9536 | G06F 16/9536 |
| G06F 16/9537 | G06F 16/9537 |
| G06F 16/9538 | G06F 16/9538 |
| G06F 16/954 | G06F 16/954 |
| G06F 16/955 | G06F 16/955 |
| G06F 16/9554 | G06F 16/955 |
| G06F 16/9558 | G06F 16/955 |
| G06F 16/9562 | G06F 16/955 |
| G06F 16/9566 | G06F 16/955 |
| G06F 16/957 | G06F 16/957 |
| G06F 16/9574 | G06F 16/957 |
| G06F 16/9577 | G06F 16/957 |
| G06F 16/958 | G06F 16/958 |

| CPC Group | IPC Group |
|---|---|
| G06F 16/972 | G06F 16/958 |
| G06F 16/986 | G06F 16/958 |
| G06F 17/00 | G06F 17/00 |
| G06F 17/10 | G06F 17/10 |
| G06F 17/11 | G06F 17/11 |
| G06F 17/12 | G06F 17/12 |
| G06F 17/13 | G06F 17/13 |
| G06F 17/14 | G06F 17/14 |
| G06F 17/141 | G06F 17/14 |
| G06F 17/142 | G06F 17/14 |
| G06F 17/144 | G06F 17/14 |
| G06F 17/145 | G06F 17/14 |
| G06F 17/147 | G06F 17/14 |
| G06F 17/148 | G06F 17/14 |
| G06F 17/15 | G06F 17/15 |
| G06F 17/153 | G06F 17/15 |
| G06F 17/156 | G06F 17/15 |
| G06F 17/16 | G06F 17/16 |
| G06F 17/17 | G06F 17/17 |
| G06F 17/175 | G06F 17/17 |
| G06F 17/18 | G06F 17/18 |
| G06F 17/40 | G06F 17/40 |
| G06F 18/00 | G06F 18/00 |
| G06F 18/10 | G06F 18/10 |

| CPC Group | IPC Group |
|---|---|
| G06F 18/15 | G06F 18/15 |
| G06F 18/20 | G06F 18/20 |
| G06F 18/21 | G06F 18/21 |
| G06F 18/211 | G06F 18/211 |
| G06F 18/2111 | G06F 18/2111 |
| G06F 18/2113 | G06F 18/2113 |
| G06F 18/2115 | G06F 18/2115 |
| G06F 18/213 | G06F 18/213 |
| G06F 18/2131 | G06F 18/2131 |
| G06F 18/2132 | G06F 18/2132 |
| G06F 18/21322 | G06F 18/2132 |
| G06F 18/21324 | G06F 18/2132 |
| G06F 18/21326 | G06F 18/2132 |
| G06F 18/21328 | G06F 18/2132 |
| G06F 18/2133 | G06F 18/2133 |
| G06F 18/2134 | G06F 18/2134 |
| G06F 18/21342 | G06F 18/2134 |
| G06F 18/21343 | G06F 18/2134 |
| G06F 18/21345 | G06F 18/2134 |
| G06F 18/21347 | G06F 18/2134 |
| G06F 18/21348 | G06F 18/2134 |
| G06F 18/2135 | G06F 18/2135 |
| G06F 18/21355 | G06F 18/2135 |
| G06F 18/2136 | G06F 18/2136 |

| CPC Group | IPC Group |
|---|---|
| G06F 18/2137 | G06F 18/2137 |
| G06F 18/21375 | G06F 18/2137 |
| G06F 18/214 | G06F 18/214 |
| G06F 18/2148 | G06F 18/214 |
| G06F 18/2155 | G06F 18/214 |
| G06F 18/2163 | G06F 18/21 |
| G06F 18/217 | G06F 18/21 |
| G06F 18/2178 | G06F 18/21 |
| G06F 18/2185 | G06F 18/21 |
| G06F 18/2193 | G06F 18/21 |
| G06F 18/22 | G06F 18/22 |
| G06F 18/23 | G06F 18/23 |
| G06F 18/231 | G06F 18/231 |
| G06F 18/232 | G06F 18/232 |
| G06F 18/2321 | G06F 18/2321 |
| G06F 18/23211 | G06F 18/23211 |
| G06F 18/23213 | G06F 18/23213 |
| G06F 18/2323 | G06F 18/2323 |
| G06F 18/2325 | G06F 18/2325 |
| G06F 18/2337 | G06F 18/2337 |
| G06F 18/24 | G06F 18/24 |
| G06F 18/241 | G06F 18/241 |
| G06F 18/2411 | G06F 18/2411 |
| G06F 18/2413 | G06F 18/2413 |

| CPC Group | IPC Group |
|---|---|
| G06F 18/24133 | G06F 18/2413 |
| G06F 18/24137 | G06F 18/2413 |
| G06F 18/2414 | G06F 18/2413 |
| G06F 18/24143 | G06F 18/2413 |
| G06F 18/24147 | G06F 18/2413 |
| G06F 18/2415 | G06F 18/2415 |
| G06F 18/24155 | G06F 18/2415 |
| G06F 18/243 | G06F 18/243 |
| G06F 18/2431 | G06F 18/2431 |
| G06F 18/24317 | G06F 18/243 |
| G06F 18/24323 | G06F 18/243 |
| G06F 18/2433 | G06F 18/2433 |
| G06F 18/245 | G06F 18/245 |
| G06F 18/2451 | G06F 18/2451 |
| G06F 18/2453 | G06F 18/2453 |
| G06F 18/24765 | G06F 18/24 |
| G06F 18/25 | G06F 18/25 |
| G06F 18/251 | G06F 18/25 |
| G06F 18/253 | G06F 18/25 |
| G06F 18/254 | G06F 18/25 |
| G06F 18/256 | G06F 18/25 |
| G06F 18/257 | G06F 18/25 |
| G06F 18/259 | G06F 18/25 |
| G06F 18/26 | G06F 18/26 |

| CPC Group | IPC Group |
|---|---|
| G06F 18/27 | G06F 18/27 |
| G06F 18/28 | G06F 18/28 |
| G06F 18/285 | G06F 18/20 |
| G06F 18/29 | G06F 18/20 |
| G06F 18/295 | G06F 18/20 |
| G06F 18/30 | G06F 18/30 |
| G06F 18/40 | G06F 18/40 |
| G06F 18/41 | G06F 18/40 |
| G06F 21/00 | G06F 21/00 |
| G06F 21/10 | G06F 21/10 |
| G06F 21/101 | G06F 21/10 |
| G06F 21/1011 | G06F 21/10 |
| G06F 21/1012 | G06F 21/10 |
| G06F 21/1013 | G06F 21/10 |
| G06F 21/1014 | G06F 21/10 |
| G06F 21/1015 | G06F 21/10 |
| G06F 21/105 | G06F 21/10 |
| G06F 21/106 | G06F 21/10 |
| G06F 21/1062 | G06F 21/10 |
| G06F 21/1063 | G06F 21/10 |
| G06F 21/1064 | G06F 21/10 |
| G06F 21/1065 | G06F 21/10 |
| G06F 21/1066 | G06F 21/10 |
| G06F 21/107 | G06F 21/10 |

| CPC Group | IPC Group |
|---|---|
| G06F 21/1073 | G06F 21/10 |
| G06F 21/1074 | G06F 21/10 |
| G06F 21/1075 | G06F 21/10 |
| G06F 21/1076 | G06F 21/10 |
| G06F 21/1077 | G06F 21/10 |
| G06F 21/1078 | G06F 21/10 |
| G06F 21/1079 | G06F 21/10 |
| G06F 21/108 | G06F 21/10 |
| G06F 21/1082 | G06F 21/10 |
| G06F 21/1083 | G06F 21/10 |
| G06F 21/1084 | G06F 21/10 |
| G06F 21/1085 | G06F 21/10 |
| G06F 21/1086 | G06F 21/10 |
| G06F 21/1087 | G06F 21/10 |
| G06F 21/1088 | G06F 21/10 |
| G06F 21/109 | G06F 21/10 |
| G06F 21/12 | G06F 21/12 |
| G06F 21/121 | G06F 21/12 |
| G06F 21/123 | G06F 21/12 |
| G06F 21/125 | G06F 21/12 |
| G06F 21/126 | G06F 21/12 |
| G06F 21/128 | G06F 21/12 |
| G06F 21/14 | G06F 21/14 |
| G06F 21/16 | G06F 21/16 |

| CPC Group | IPC Group |
|---|---|
| G06F 21/30 | G06F 21/30 |
| G06F 21/305 | G06F 21/30 |
| G06F 21/31 | G06F 21/31 |
| G06F 21/313 | G06F 21/31 |
| G06F 21/316 | G06F 21/31 |
| G06F 21/32 | G06F 21/32 |
| G06F 21/33 | G06F 21/33 |
| G06F 21/335 | G06F 21/33 |
| G06F 21/34 | G06F 21/34 |
| G06F 21/35 | G06F 21/35 |
| G06F 21/36 | G06F 21/36 |
| G06F 21/40 | G06F 21/40 |
| G06F 21/41 | G06F 21/41 |
| G06F 21/42 | G06F 21/42 |
| G06F 21/43 | G06F 21/43 |
| G06F 21/44 | G06F 21/44 |
| G06F 21/445 | G06F 21/44 |
| G06F 21/45 | G06F 21/45 |
| G06F 21/46 | G06F 21/46 |
| G06F 21/50 | G06F 21/50 |
| G06F 21/51 | G06F 21/51 |
| G06F 21/52 | G06F 21/52 |
| G06F 21/53 | G06F 21/53 |
| G06F 21/54 | G06F 21/54 |

| CPC Group | IPC Group |
|---|---|
| G06F 21/55 | G06F 21/55 |
| G06F 21/552 | G06F 21/55 |
| G06F 21/554 | G06F 21/55 |
| G06F 21/556 | G06F 21/55 |
| G06F 21/56 | G06F 21/56 |
| G06F 21/561 | G06F 21/56 |
| G06F 21/562 | G06F 21/56 |
| G06F 21/563 | G06F 21/56 |
| G06F 21/564 | G06F 21/56 |
| G06F 21/565 | G06F 21/56 |
| G06F 21/566 | G06F 21/56 |
| G06F 21/567 | G06F 21/56 |
| G06F 21/568 | G06F 21/56 |
| G06F 21/57 | G06F 21/57 |
| G06F 21/572 | G06F 21/57 |
| G06F 21/575 | G06F 21/57 |
| G06F 21/577 | G06F 21/57 |
| G06F 21/60 | G06F 21/60 |
| G06F 21/602 | G06F 21/60 |
| G06F 21/604 | G06F 21/60 |
| G06F 21/606 | G06F 21/60 |
| G06F 21/608 | G06F 21/60 |
| G06F 21/62 | G06F 21/62 |
| G06F 21/6209 | G06F 21/62 |

| CPC Group | IPC Group |
|---|---|
| G06F 21/6218 | G06F 21/62 |
| G06F 21/6227 | G06F 21/62 |
| G06F 21/6236 | G06F 21/62 |
| G06F 21/6245 | G06F 21/62 |
| G06F 21/6254 | G06F 21/62 |
| G06F 21/6263 | G06F 21/62 |
| G06F 21/6272 | G06F 21/62 |
| G06F 21/6281 | G06F 21/62 |
| G06F 21/629 | G06F 21/62 |
| G06F 21/64 | G06F 21/64 |
| G06F 21/645 | G06F 21/64 |
| G06F 21/70 | G06F 21/70 |
| G06F 21/71 | G06F 21/71 |
| G06F 21/72 | G06F 21/72 |
| G06F 21/725 | G06F 21/72 |
| G06F 21/73 | G06F 21/73 |
| G06F 21/74 | G06F 21/74 |
| G06F 21/75 | G06F 21/75 |
| G06F 21/755 | G06F 21/75 |
| G06F 21/76 | G06F 21/76 |
| G06F 21/77 | G06F 21/77 |
| G06F 21/78 | G06F 21/78 |
| G06F 21/79 | G06F 21/79 |
| G06F 21/80 | G06F 21/80 |

| CPC Group | IPC Group |
|---|---|
| G06F 21/805 | G06F 21/80 |
| G06F 21/81 | G06F 21/81 |
| G06F 21/82 | G06F 21/82 |
| G06F 21/83 | G06F 21/83 |
| G06F 21/84 | G06F 21/84 |
| G06F 21/85 | G06F 21/85 |
| G06F 21/86 | G06F 21/86 |
| G06F 21/87 | G06F 21/87 |
| G06F 21/88 | G06F 21/88 |
| G06F 30/00 | G06F 30/00 |
| G06F 30/10 | G06F 30/10 |
| G06F 30/12 | G06F 30/12 |
| G06F 30/13 | G06F 30/13 |
| G06F 30/15 | G06F 30/15 |
| G06F 30/17 | G06F 30/17 |
| G06F 30/18 | G06F 30/18 |
| G06F 30/20 | G06F 30/20 |
| G06F 30/22 | G06F 30/22 |
| G06F 30/23 | G06F 30/23 |
| G06F 30/25 | G06F 30/25 |
| G06F 30/27 | G06F 30/27 |
| G06F 30/28 | G06F 30/28 |
| G06F 30/30 | G06F 30/30 |
| G06F 30/31 | G06F 30/31 |

| CPC Group | IPC Group |
|---|---|
| G06F 30/32 | G06F 30/32 |
| G06F 30/323 | G06F 30/323 |
| G06F 30/327 | G06F 30/327 |
| G06F 30/33 | G06F 30/33 |
| G06F 30/3308 | G06F 30/3308 |
| G06F 30/331 | G06F 30/331 |
| G06F 30/3312 | G06F 30/3312 |
| G06F 30/3315 | G06F 30/3315 |
| G06F 30/3323 | G06F 30/3323 |
| G06F 30/333 | G06F 30/333 |
| G06F 30/337 | G06F 30/337 |
| G06F 30/34 | G06F 30/34 |
| G06F 30/343 | G06F 30/343 |
| G06F 30/347 | G06F 30/347 |
| G06F 30/35 | G06F 30/35 |
| G06F 30/36 | G06F 30/36 |
| G06F 30/367 | G06F 30/367 |
| G06F 30/373 | G06F 30/373 |
| G06F 30/38 | G06F 30/38 |
| G06F 30/39 | G06F 30/39 |
| G06F 30/392 | G06F 30/392 |
| G06F 30/394 | G06F 30/394 |
| G06F 30/3947 | G06F 30/3947 |
| G06F 30/3953 | G06F 30/3953 |

| CPC Group | IPC Group |
|---|---|
| G06F 30/396 | G06F 30/396 |
| G06F 30/398 | G06F 30/398 |
| G06F 40/00 | G06F 40/00 |
| G06F 40/10 | G06F 40/10 |
| G06F 40/103 | G06F 40/103 |
| G06F 40/106 | G06F 40/106 |
| G06F 40/109 | G06F 40/109 |
| G06F 40/111 | G06F 40/111 |
| G06F 40/114 | G06F 40/114 |
| G06F 40/117 | G06F 40/117 |
| G06F 40/12 | G06F 40/12 |
| G06F 40/123 | G06F 40/123 |
| G06F 40/126 | G06F 40/126 |
| G06F 40/129 | G06F 40/129 |
| G06F 40/131 | G06F 40/131 |
| G06F 40/134 | G06F 40/134 |
| G06F 40/137 | G06F 40/137 |
| G06F 40/14 | G06F 40/14 |
| G06F 40/143 | G06F 40/143 |
| G06F 40/146 | G06F 40/146 |
| G06F 40/149 | G06F 40/149 |
| G06F 40/151 | G06F 40/151 |
| G06F 40/154 | G06F 40/154 |
| G06F 40/157 | G06F 40/157 |

| CPC Group | IPC Group |
|---|---|
| G06F 40/16 | G06F 40/16 |
| G06F 40/163 | G06F 40/163 |
| G06F 40/166 | G06F 40/166 |
| G06F 40/169 | G06F 40/169 |
| G06F 40/171 | G06F 40/171 |
| G06F 40/174 | G06F 40/174 |
| G06F 40/177 | G06F 40/177 |
| G06F 40/18 | G06F 40/18 |
| G06F 40/183 | G06F 40/183 |
| G06F 40/186 | G06F 40/186 |
| G06F 40/189 | G06F 40/189 |
| G06F 40/191 | G06F 40/191 |
| G06F 40/194 | G06F 40/194 |
| G06F 40/197 | G06F 40/197 |
| G06F 40/20 | G06F 40/20 |
| G06F 40/205 | G06F 40/205 |
| G06F 40/211 | G06F 40/211 |
| G06F 40/216 | G06F 40/216 |
| G06F 40/221 | G06F 40/221 |
| G06F 40/226 | G06F 40/226 |
| G06F 40/232 | G06F 40/232 |
| G06F 40/237 | G06F 40/237 |
| G06F 40/242 | G06F 40/242 |
| G06F 40/247 | G06F 40/247 |

| CPC Group | IPC Group |
|---|---|
| G06F 40/253 | G06F 40/253 |
| G06F 40/258 | G06F 40/258 |
| G06F 40/263 | G06F 40/263 |
| G06F 40/268 | G06F 40/268 |
| G06F 40/274 | G06F 40/274 |
| G06F 40/279 | G06F 40/279 |
| G06F 40/284 | G06F 40/284 |
| G06F 40/289 | G06F 40/289 |
| G06F 40/295 | G06F 40/295 |
| G06F 40/30 | G06F 40/30 |
| G06F 40/35 | G06F 40/35 |
| G06F 40/40 | G06F 40/40 |
| G06F 40/42 | G06F 40/42 |
| G06F 40/44 | G06F 40/44 |
| G06F 40/45 | G06F 40/45 |
| G06F 40/47 | G06F 40/47 |
| G06F 40/49 | G06F 40/49 |
| G06F 40/51 | G06F 40/51 |
| G06F 40/53 | G06F 40/53 |
| G06F 40/55 | G06F 40/55 |
| G06F 40/56 | G06F 40/56 |
| G06F 40/58 | G06F 40/58 |
| G06F 2101/00 | — |
| G06F 2101/02 | — |

| CPC Group | IPC Group |
|---|---|
| G06F 2101/04 | — |
| G06F 2101/06 | — |
| G06F 2101/08 | — |
| G06F 2101/10 | — |
| G06F 2101/12 | — |
| G06F 2101/14 | — |
| G06F 2101/16 | — |
| G06F 2111/00 | G06F 111/00 |
| G06F 2111/02 | G06F 111/02 |
| G06F 2111/04 | G06F 111/04 |
| G06F 2111/06 | G06F 111/06 |
| G06F 2111/08 | G06F 111/08 |
| G06F 2111/10 | G06F 111/10 |
| G06F 2111/12 | G06F 111/12 |
| G06F 2111/14 | G06F 111/14 |
| G06F 2111/16 | G06F 111/16 |
| G06F 2111/18 | G06F 111/18 |
| G06F 2111/20 | G06F 111/20 |
| G06F 2113/00 | G06F 113/00 |
| G06F 2113/02 | G06F 113/02 |
| G06F 2113/04 | G06F 113/04 |
| G06F 2113/06 | G06F 113/06 |
| G06F 2113/08 | G06F 113/08 |
| G06F 2113/10 | G06F 113/10 |

| CPC Group | IPC Group |
|---|---|
| G06F 2113/12 | G06F 113/12 |
| G06F 2113/14 | G06F 113/14 |
| G06F 2113/16 | G06F 113/16 |
| G06F 2113/18 | G06F 113/18 |
| G06F 2113/20 | G06F 113/20 |
| G06F 2113/22 | G06F 113/22 |
| G06F 2113/24 | G06F 113/24 |
| G06F 2113/26 | G06F 113/26 |
| G06F 2113/28 | G06F 113/28 |
| G06F 2115/00 | G06F 115/00 |
| G06F 2115/02 | G06F 115/02 |
| G06F 2115/04 | G06F 115/04 |
| G06F 2115/06 | G06F 115/06 |
| G06F 2115/08 | G06F 115/08 |
| G06F 2115/10 | G06F 115/10 |
| G06F 2115/12 | G06F 115/12 |
| G06F 2117/00 | G06F 117/00 |
| G06F 2117/02 | G06F 117/02 |
| G06F 2117/04 | G06F 117/04 |
| G06F 2117/06 | G06F 117/06 |
| G06F 2117/08 | G06F 117/08 |
| G06F 2117/10 | G06F 117/10 |
| G06F 2117/12 | G06F 117/12 |
| G06F 2119/00 | G06F 119/00 |

| CPC Group | IPC Group |
|---|---|
| G06F 2119/02 | G06F 119/02 |
| G06F 2119/04 | G06F 119/04 |
| G06F 2119/06 | G06F 119/06 |
| G06F 2119/08 | G06F 119/08 |
| G06F 2119/10 | G06F 119/10 |
| G06F 2119/12 | G06F 119/12 |
| G06F 2119/14 | G06F 119/14 |
| G06F 2119/16 | G06F 119/16 |
| G06F 2119/18 | G06F 119/18 |
| G06F 2119/20 | G06F 119/20 |
| G06F 2119/22 | G06F 119/22 |
| G06F 2123/00 | G06F 123/00 |
| G06F 2123/02 | G06F 123/02 |
| G06F 2200/00 | — |
| G06F 2200/16 | — |
| G06F 2200/161 | — |
| G06F 2200/1611 | — |
| G06F 2200/1612 | — |
| G06F 2200/1613 | — |
| G06F 2200/1614 | — |
| G06F 2200/163 | — |
| G06F 2200/1631 | — |
| G06F 2200/1632 | — |
| G06F 2200/1633 | — |

| CPC Group | IPC Group |
|---|---|
| G06F 2200/1634 | — |
| G06F 2200/1635 | — |
| G06F 2200/1636 | — |
| G06F 2200/1637 | — |
| G06F 2200/1638 | — |
| G06F 2200/1639 | — |
| G06F 2200/20 | — |
| G06F 2200/201 | — |
| G06F 2200/202 | — |
| G06F 2200/203 | — |
| G06F 2200/26 | — |
| G06F 2200/261 | — |
| G06F 2201/00 | — |
| G06F 2201/80 | — |
| G06F 2201/805 | — |
| G06F 2201/81 | — |
| G06F 2201/815 | — |
| G06F 2201/82 | — |
| G06F 2201/825 | — |
| G06F 2201/83 | — |
| G06F 2201/835 | — |
| G06F 2201/84 | — |
| G06F 2201/845 | — |
| G06F 2201/85 | — |

| CPC Group | IPC Group |
|---|---|
| G06F 2201/855 | — |
| G06F 2201/86 | — |
| G06F 2201/865 | — |
| G06F 2201/87 | — |
| G06F 2201/875 | — |
| G06F 2201/88 | — |
| G06F 2201/885 | — |
| G06F 2203/00 | — |
| G06F 2203/01 | — |
| G06F 2203/011 | — |
| G06F 2203/012 | — |
| G06F 2203/013 | — |
| G06F 2203/014 | — |
| G06F 2203/015 | — |
| G06F 2203/033 | — |
| G06F 2203/0331 | — |
| G06F 2203/0332 | — |
| G06F 2203/0333 | — |
| G06F 2203/0334 | — |
| G06F 2203/0335 | — |
| G06F 2203/0336 | — |
| G06F 2203/0337 | — |
| G06F 2203/0338 | — |
| G06F 2203/0339 | — |

| CPC Group | IPC Group |
|---|---|
| G06F 2203/038 | — |
| G06F 2203/0381 | — |
| G06F 2203/0382 | — |
| G06F 2203/0383 | — |
| G06F 2203/0384 | — |
| G06F 2203/041 | — |
| G06F 2203/04101 | — |
| G06F 2203/04102 | — |
| G06F 2203/04103 | — |
| G06F 2203/04104 | — |
| G06F 2203/04105 | — |
| G06F 2203/04106 | — |
| G06F 2203/04107 | — |
| G06F 2203/04108 | — |
| G06F 2203/04109 | — |
| G06F 2203/04111 | — |
| G06F 2203/04112 | — |
| G06F 2203/04113 | — |
| G06F 2203/04114 | — |
| G06F 2203/048 | — |
| G06F 2203/04801 | — |
| G06F 2203/04802 | — |
| G06F 2203/04803 | — |
| G06F 2203/04804 | — |

| CPC Group | IPC Group |
|---|---|
| G06F 2203/04805 | — |
| G06F 2203/04806 | — |
| G06F 2203/04807 | — |
| G06F 2203/04808 | — |
| G06F 2203/04809 | — |
| G06F 2205/00 | — |
| G06F 2205/003 | — |
| G06F 2205/06 | — |
| G06F 2205/061 | — |
| G06F 2205/062 | — |
| G06F 2205/063 | — |
| G06F 2205/064 | — |
| G06F 2205/065 | — |
| G06F 2205/066 | — |
| G06F 2205/067 | — |
| G06F 2205/10 | — |
| G06F 2205/102 | — |
| G06F 2205/104 | — |
| G06F 2205/106 | — |
| G06F 2205/108 | — |
| G06F 2205/12 | — |
| G06F 2205/123 | — |
| G06F 2205/126 | — |
| G06F 2206/00 | — |

| CPC Group | IPC Group |
|---|---|
| G06F 2206/10 | — |
| G06F 2206/1004 | — |
| G06F 2206/1008 | — |
| G06F 2206/1012 | — |
| G06F 2206/1014 | — |
| G06F 2206/15 | — |
| G06F 2206/1504 | — |
| G06F 2206/1506 | — |
| G06F 2206/1508 | — |
| G06F 2206/151 | — |
| G06F 2206/1512 | — |
| G06F 2206/1514 | — |
| G06F 2206/20 | — |
| G06F 2207/00 | — |
| G06F 2207/02 | — |
| G06F 2207/025 | — |
| G06F 2207/22 | — |
| G06F 2207/222 | — |
| G06F 2207/224 | — |
| G06F 2207/226 | — |
| G06F 2207/228 | — |
| G06F 2207/38 | — |
| G06F 2207/3804 | — |
| G06F 2207/3808 | — |

| CPC Group | IPC Group |
|---|---|
| G06F 2207/3812 | — |
| G06F 2207/3816 | — |
| G06F 2207/382 | — |
| G06F 2207/3824 | — |
| G06F 2207/3828 | — |
| G06F 2207/3832 | — |
| G06F 2207/3836 | — |
| G06F 2207/384 | — |
| G06F 2207/3844 | — |
| G06F 2207/3848 | — |
| G06F 2207/3852 | — |
| G06F 2207/3856 | — |
| G06F 2207/386 | — |
| G06F 2207/3864 | — |
| G06F 2207/3868 | — |
| G06F 2207/3872 | — |
| G06F 2207/3876 | — |
| G06F 2207/388 | — |
| G06F 2207/3884 | — |
| G06F 2207/3888 | — |
| G06F 2207/3892 | — |
| G06F 2207/3896 | — |
| G06F 2207/48 | — |
| G06F 2207/4802 | — |

| CPC Group | IPC Group |
|---|---|
| G06F 2207/4804 | — |
| G06F 2207/4806 | — |
| G06F 2207/4808 | — |
| G06F 2207/481 | — |
| G06F 2207/4812 | — |
| G06F 2207/4814 | — |
| G06F 2207/4816 | — |
| G06F 2207/4818 | — |
| G06F 2207/482 | — |
| G06F 2207/4822 | — |
| G06F 2207/4824 | — |
| G06F 2207/4826 | — |
| G06F 2207/4828 | — |
| G06F 2207/483 | — |
| G06F 2207/4835 | — |
| G06F 2207/491 | — |
| G06F 2207/49105 | — |
| G06F 2207/4911 | — |
| G06F 2207/49115 | — |
| G06F 2207/4912 | — |
| G06F 2207/49125 | — |
| G06F 2207/4913 | — |
| G06F 2207/49135 | — |
| G06F 2207/4914 | — |

| CPC Group | IPC Group |
|---|---|
| G06F 2207/49145 | — |
| G06F 2207/4915 | — |
| G06F 2207/49155 | — |
| G06F 2207/4916 | — |
| G06F 2207/49165 | — |
| G06F 2207/4917 | — |
| G06F 2207/49175 | — |
| G06F 2207/4918 | — |
| G06F 2207/49185 | — |
| G06F 2207/4919 | — |
| G06F 2207/49195 | — |
| G06F 2207/492 | — |
| G06F 2207/4921 | — |
| G06F 2207/4922 | — |
| G06F 2207/4923 | — |
| G06F 2207/4924 | — |
| G06F 2207/506 | — |
| G06F 2207/5063 | — |
| G06F 2207/535 | — |
| G06F 2207/5351 | — |
| G06F 2207/5352 | — |
| G06F 2207/5353 | — |
| G06F 2207/5354 | — |
| G06F 2207/5355 | — |

| CPC Group | IPC Group |
|---|---|
| G06F 2207/5356 | — |
| G06F 2207/544 | — |
| G06F 2207/5442 | — |
| G06F 2207/552 | — |
| G06F 2207/5521 | — |
| G06F 2207/5523 | — |
| G06F 2207/5525 | — |
| G06F 2207/5526 | — |
| G06F 2207/5528 | — |
| G06F 2207/556 | — |
| G06F 2207/5561 | — |
| G06F 2207/58 | — |
| G06F 2207/581 | — |
| G06F 2207/582 | — |
| G06F 2207/583 | — |
| G06F 2207/72 | — |
| G06F 2207/7204 | — |
| G06F 2207/7209 | — |
| G06F 2207/7214 | — |
| G06F 2207/7219 | — |
| G06F 2207/7223 | — |
| G06F 2207/7228 | — |
| G06F 2207/7233 | — |
| G06F 2207/7238 | — |

| CPC Group | IPC Group |
|---|---|
| G06F 2207/7242 | — |
| G06F 2207/7247 | — |
| G06F 2207/7252 | — |
| G06F 2207/7257 | — |
| G06F 2207/7261 | — |
| G06F 2207/7266 | — |
| G06F 2207/7271 | — |
| G06F 2207/7276 | — |
| G06F 2207/728 | — |
| G06F 2207/7285 | — |
| G06F 2207/729 | — |
| G06F 2207/7295 | — |
| G06F 2209/00 | — |
| G06F 2209/46 | — |
| G06F 2209/461 | — |
| G06F 2209/462 | — |
| G06F 2209/463 | — |
| G06F 2209/48 | — |
| G06F 2209/481 | — |
| G06F 2209/482 | — |
| G06F 2209/483 | — |
| G06F 2209/484 | — |
| G06F 2209/485 | — |
| G06F 2209/486 | — |

| CPC Group | IPC Group |
|---|---|
| G06F 2209/50 | — |
| G06F 2209/501 | — |
| G06F 2209/5011 | — |
| G06F 2209/5012 | — |
| G06F 2209/5013 | — |
| G06F 2209/5014 | — |
| G06F 2209/5015 | — |
| G06F 2209/5016 | — |
| G06F 2209/5017 | — |
| G06F 2209/5018 | — |
| G06F 2209/5019 | — |
| G06F 2209/502 | — |
| G06F 2209/5021 | — |
| G06F 2209/5022 | — |
| G06F 2209/503 | — |
| G06F 2209/504 | — |
| G06F 2209/505 | — |
| G06F 2209/506 | — |
| G06F 2209/507 | — |
| G06F 2209/508 | — |
| G06F 2209/509 | — |
| G06F 2209/52 | — |
| G06F 2209/521 | — |
| G06F 2209/522 | — |

| CPC Group | IPC Group |
|---|---|
| G06F 2209/523 | — |
| G06F 2209/54 | — |
| G06F 2209/541 | — |
| G06F 2209/542 | — |
| G06F 2209/543 | — |
| G06F 2209/544 | — |
| G06F 2209/545 | — |
| G06F 2209/546 | — |
| G06F 2209/547 | — |
| G06F 2209/548 | — |
| G06F 2209/549 | — |
| G06F 2211/00 | — |
| G06F 2211/001 | — |
| G06F 2211/002 | — |
| G06F 2211/003 | — |
| G06F 2211/004 | — |
| G06F 2211/005 | — |
| G06F 2211/006 | — |
| G06F 2211/007 | — |
| G06F 2211/008 | — |
| G06F 2211/009 | — |
| G06F 2211/10 | — |
| G06F 2211/1002 | — |
| G06F 2211/1004 | — |

| CPC Group | IPC Group |
|---|---|
| G06F 2211/1007 | — |
| G06F 2211/1009 | — |
| G06F 2211/1011 | — |
| G06F 2211/1014 | — |
| G06F 2211/1016 | — |
| G06F 2211/1019 | — |
| G06F 2211/1021 | — |
| G06F 2211/1023 | — |
| G06F 2211/1026 | — |
| G06F 2211/1028 | — |
| G06F 2211/103 | — |
| G06F 2211/1033 | — |
| G06F 2211/1035 | — |
| G06F 2211/1038 | — |
| G06F 2211/104 | — |
| G06F 2211/1042 | — |
| G06F 2211/1045 | — |
| G06F 2211/1047 | — |
| G06F 2211/105 | — |
| G06F 2211/1052 | — |
| G06F 2211/1054 | — |
| G06F 2211/1057 | — |
| G06F 2211/1059 | — |
| G06F 2211/1061 | — |

| CPC Group | IPC Group |
|---|---|
| G06F 2211/1064 | — |
| G06F 2211/1066 | — |
| G06F 2211/1069 | — |
| G06F 2211/1071 | — |
| G06F 2211/1073 | — |
| G06F 2211/1076 | — |
| G06F 2211/1078 | — |
| G06F 2211/108 | — |
| G06F 2211/1083 | — |
| G06F 2211/1085 | — |
| G06F 2211/1088 | — |
| G06F 2211/109 | — |
| G06F 2211/1092 | — |
| G06F 2211/1095 | — |
| G06F 2211/1097 | — |
| G06F 2211/902 | — |
| G06F 2212/00 | — |
| G06F 2212/10 | — |
| G06F 2212/1004 | — |
| G06F 2212/1008 | — |
| G06F 2212/1012 | — |
| G06F 2212/1016 | — |
| G06F 2212/1021 | — |
| G06F 2212/1024 | — |

| CPC Group | IPC Group |
|---|---|
| G06F 2212/1028 | — |
| G06F 2212/1032 | — |
| G06F 2212/1036 | — |
| G06F 2212/1041 | — |
| G06F 2212/1044 | — |
| G06F 2212/1048 | — |
| G06F 2212/1052 | — |
| G06F 2212/1056 | — |
| G06F 2212/15 | — |
| G06F 2212/151 | — |
| G06F 2212/152 | — |
| G06F 2212/154 | — |
| G06F 2212/16 | — |
| G06F 2212/161 | — |
| G06F 2212/163 | — |
| G06F 2212/165 | — |
| G06F 2212/17 | — |
| G06F 2212/171 | — |
| G06F 2212/172 | — |
| G06F 2212/1721 | — |
| G06F 2212/173 | — |
| G06F 2212/174 | — |
| G06F 2212/175 | — |
| G06F 2212/177 | — |

| CPC Group | IPC Group |
|---|---|
| G06F 2212/178 | — |
| G06F 2212/20 | — |
| G06F 2212/202 | — |
| G06F 2212/2022 | — |
| G06F 2212/2024 | — |
| G06F 2212/2028 | — |
| G06F 2212/205 | — |
| G06F 2212/206 | — |
| G06F 2212/21 | — |
| G06F 2212/211 | — |
| G06F 2212/2112 | — |
| G06F 2212/213 | — |
| G06F 2212/214 | — |
| G06F 2212/2142 | — |
| G06F 2212/2146 | — |
| G06F 2212/217 | — |
| G06F 2212/22 | — |
| G06F 2212/221 | — |
| G06F 2212/222 | — |
| G06F 2212/2228 | — |
| G06F 2212/224 | — |
| G06F 2212/225 | — |
| G06F 2212/25 | — |
| G06F 2212/251 | — |

| CPC Group | IPC Group |
|---|---|
| G06F 2212/2515 | — |
| G06F 2212/253 | — |
| G06F 2212/2532 | — |
| G06F 2212/254 | — |
| G06F 2212/2542 | — |
| G06F 2212/26 | — |
| G06F 2212/261 | — |
| G06F 2212/262 | — |
| G06F 2212/263 | — |
| G06F 2212/264 | — |
| G06F 2212/27 | — |
| G06F 2212/271 | — |
| G06F 2212/272 | — |
| G06F 2212/28 | — |
| G06F 2212/281 | — |
| G06F 2212/282 | — |
| G06F 2212/283 | — |
| G06F 2212/284 | — |
| G06F 2212/285 | — |
| G06F 2212/286 | — |
| G06F 2212/30 | — |
| G06F 2212/301 | — |
| G06F 2212/302 | — |
| G06F 2212/303 | — |

| CPC Group | IPC Group |
|---|---|
| G06F 2212/3035 | — |
| G06F 2212/304 | — |
| G06F 2212/3042 | — |
| G06F 2212/305 | — |
| G06F 2212/306 | — |
| G06F 2212/31 | — |
| G06F 2212/311 | — |
| G06F 2212/312 | — |
| G06F 2212/313 | — |
| G06F 2212/314 | — |
| G06F 2212/40 | — |
| G06F 2212/401 | — |
| G06F 2212/402 | — |
| G06F 2212/403 | — |
| G06F 2212/45 | — |
| G06F 2212/451 | — |
| G06F 2212/452 | — |
| G06F 2212/453 | — |
| G06F 2212/454 | — |
| G06F 2212/455 | — |
| G06F 2212/46 | — |
| G06F 2212/461 | — |
| G06F 2212/462 | — |
| G06F 2212/463 | — |

| CPC Group | IPC Group |
|---|---|
| G06F 2212/464 | — |
| G06F 2212/465 | — |
| G06F 2212/466 | — |
| G06F 2212/468 | — |
| G06F 2212/50 | — |
| G06F 2212/502 | — |
| G06F 2212/507 | — |
| G06F 2212/60 | — |
| G06F 2212/601 | — |
| G06F 2212/6012 | — |
| G06F 2212/602 | — |
| G06F 2212/6022 | — |
| G06F 2212/6024 | — |
| G06F 2212/6026 | — |
| G06F 2212/6028 | — |
| G06F 2212/603 | — |
| G06F 2212/6032 | — |
| G06F 2212/604 | — |
| G06F 2212/6042 | — |
| G06F 2212/6046 | — |
| G06F 2212/608 | — |
| G06F 2212/6082 | — |
| G06F 2212/62 | — |
| G06F 2212/621 | — |

| CPC Group | IPC Group |
|---|---|
| G06F 2212/622 | — |
| G06F 2212/65 | — |
| G06F 2212/651 | — |
| G06F 2212/652 | — |
| G06F 2212/653 | — |
| G06F 2212/654 | — |
| G06F 2212/655 | — |
| G06F 2212/656 | — |
| G06F 2212/657 | — |
| G06F 2212/68 | — |
| G06F 2212/681 | — |
| G06F 2212/682 | — |
| G06F 2212/683 | — |
| G06F 2212/684 | — |
| G06F 2212/70 | — |
| G06F 2212/702 | — |
| G06F 2212/72 | — |
| G06F 2212/7201 | — |
| G06F 2212/7202 | — |
| G06F 2212/7203 | — |
| G06F 2212/7204 | — |
| G06F 2212/7205 | — |
| G06F 2212/7206 | — |
| G06F 2212/7207 | — |

| CPC Group | IPC Group |
|---|---|
| G06F 2212/7208 | — |
| G06F 2212/7209 | — |
| G06F 2212/7211 | — |
| G06F 2213/00 | — |
| G06F 2213/0002 | — |
| G06F 2213/0004 | — |
| G06F 2213/0006 | — |
| G06F 2213/0008 | — |
| G06F 2213/0012 | — |
| G06F 2213/0014 | — |
| G06F 2213/0016 | — |
| G06F 2213/0018 | — |
| G06F 2213/0022 | — |
| G06F 2213/0024 | — |
| G06F 2213/0026 | — |
| G06F 2213/0028 | — |
| G06F 2213/0032 | — |
| G06F 2213/0034 | — |
| G06F 2213/0036 | — |
| G06F 2213/0038 | — |
| G06F 2213/0042 | — |
| G06F 2213/0044 | — |
| G06F 2213/0052 | — |
| G06F 2213/0054 | — |

| CPC Group | IPC Group |
|---|---|
| G06F 2213/0056 | — |
| G06F 2213/0058 | — |
| G06F 2213/0062 | — |
| G06F 2213/0064 | — |
| G06F 2213/16 | — |
| G06F 2213/1602 | — |
| G06F 2213/24 | — |
| G06F 2213/2402 | — |
| G06F 2213/2404 | — |
| G06F 2213/2406 | — |
| G06F 2213/2408 | — |
| G06F 2213/2412 | — |
| G06F 2213/2414 | — |
| G06F 2213/2416 | — |
| G06F 2213/2418 | — |
| G06F 2213/2422 | — |
| G06F 2213/2424 | — |
| G06F 2213/28 | — |
| G06F 2213/2802 | — |
| G06F 2213/2804 | — |
| G06F 2213/2806 | — |
| G06F 2213/2808 | — |
| G06F 2213/36 | — |
| G06F 2213/3602 | — |

| CPC Group | IPC Group |
|---|---|
| G06F 2213/3604 | — |
| G06F 2213/38 | — |
| G06F 2213/3802 | — |
| G06F 2213/3804 | — |
| G06F 2213/3806 | — |
| G06F 2213/3808 | — |
| G06F 2213/3812 | — |
| G06F 2213/3814 | — |
| G06F 2213/3852 | — |
| G06F 2213/3854 | — |
| G06F 2213/40 | — |
| G06F 2213/4002 | — |
| G06F 2213/4004 | — |
| G06F 2216/00 | — |
| G06F 2216/01 | — |
| G06F 2216/03 | — |
| G06F 2216/05 | — |
| G06F 2216/07 | — |
| G06F 2216/09 | — |
| G06F 2216/11 | — |
| G06F 2216/13 | — |
| G06F 2216/15 | — |
| G06F 2216/17 | — |
| G06F 2218/00 | — |

| CPC Group | IPC Group |
|---|---|
| G06F 2218/02 | — |
| G06F 2218/04 | — |
| G06F 2218/06 | — |
| G06F 2218/08 | — |
| G06F 2218/10 | — |
| G06F 2218/12 | — |
| G06F 2218/14 | — |
| G06F 2218/16 | — |
| G06F 2218/18 | — |
| G06F 2218/20 | — |
| G06F 2218/22 | — |
| G06F 2219/00 | — |
| G06F 2219/10 | — |
| G06F 2221/00 | — |
| G06F 2221/03 | — |
| G06F 2221/031 | — |
| G06F 2221/032 | — |
| G06F 2221/033 | — |
| G06F 2221/034 | — |
| G06F 2221/21 | — |
| G06F 2221/2101 | — |
| G06F 2221/2103 | — |
| G06F 2221/2105 | — |
| G06F 2221/2107 | — |

| CPC Group | IPC Group |
|---|---|
| G06F 2221/2109 | — |
| G06F 2221/2111 | — |
| G06F 2221/2113 | — |
| G06F 2221/2115 | — |
| G06F 2221/2117 | — |
| G06F 2221/2119 | — |
| G06F 2221/2121 | — |
| G06F 2221/2123 | — |
| G06F 2221/2125 | — |
| G06F 2221/2127 | — |
| G06F 2221/2129 | — |
| G06F 2221/2131 | — |
| G06F 2221/2133 | — |
| G06F 2221/2135 | — |
| G06F 2221/2137 | — |
| G06F 2221/2139 | — |
| G06F 2221/2141 | — |
| G06F 2221/2143 | — |
| G06F 2221/2145 | — |
| G06F 2221/2147 | — |
| G06F 2221/2149 | — |
| G06F 2221/2151 | — |
| G06F 2221/2153 | — |