

## CPC to IPC Concordance for Subclass H04L

CPC Group	IPC Group
H04L 1/00	H04L 1/00
H04L 1/0001	H04L 1/00
H04L 1/0002	H04L 1/00
H04L 1/0003	H04L 1/00
H04L 1/0004	H04L 1/00
H04L 1/0005	H04L 1/00
H04L 1/0006	H04L 1/00
H04L 1/0007	H04L 1/00
H04L 1/0008	H04L 1/00
H04L 1/0009	H04L 1/00
H04L 1/001	H04L 1/00
H04L 1/0011	H04L 1/00
H04L 1/0013	H04L 1/00
H04L 1/0014	H04L 1/00
H04L 1/0015	H04L 1/00
H04L 1/0016	H04L 1/00
H04L 1/0017	H04L 1/00
H04L 1/0018	H04L 1/00
H04L 1/0019	H04L 1/00
H04L 1/002	H04L 1/00
H04L 1/0021	H04L 1/00
H04L 1/0022	H04L 1/00
H04L 1/0023	H04L 1/00

CPC Group	IPC Group
H04L 1/0025	H04L 1/00
H04L 1/0026	H04L 1/00
H04L 1/0027	H04L 1/00
H04L 1/0028	H04L 1/00
H04L 1/0029	H04L 1/00
H04L 1/003	H04L 1/00
H04L 1/0031	H04L 1/00
H04L 1/0032	H04L 1/00
H04L 1/0033	H04L 1/00
H04L 1/0034	H04L 1/00
H04L 1/0035	H04L 1/00
H04L 1/0036	H04L 1/00
H04L 1/0038	H04L 1/00
H04L 1/0039	H04L 1/00
H04L 1/004	H04L 1/00
H04L 1/0041	H04L 1/00
H04L 1/0042	H04L 1/00
H04L 1/0043	H04L 1/00
H04L 1/0044	H04L 1/00
H04L 1/0045	H04L 1/00
H04L 1/0046	H04L 1/00
H04L 1/0047	H04L 1/00
H04L 1/0048	H04L 1/00
H04L 1/005	H04L 1/00

CPC Group	IPC Group
H04L 1/0051	H04L 1/00
H04L 1/0052	H04L 1/00
H04L 1/0053	H04L 1/00
H04L 1/0054	H04L 1/00
H04L 1/0055	H04L 1/00
H04L 1/0056	H04L 1/00
H04L 1/0057	H04L 1/00
H04L 1/0058	H04L 1/00
H04L 1/0059	H04L 1/00
H04L 1/006	H04L 1/00
H04L 1/0061	H04L 1/00
H04L 1/0063	H04L 1/00
H04L 1/0064	H04L 1/00
H04L 1/0065	H04L 1/00
H04L 1/0066	H04L 1/00
H04L 1/0067	H04L 1/00
H04L 1/0068	H04L 1/00
H04L 1/0069	H04L 1/00
H04L 1/007	H04L 1/00
H04L 1/0071	H04L 1/00
H04L 1/0072	H04L 1/00
H04L 1/0073	H04L 1/00
H04L 1/0075	H04L 1/00
H04L 1/0076	H04L 1/00

CPC Group	IPC Group
H04L 1/0077	H04L 1/00
H04L 1/0078	H04L 1/00
H04L 1/0079	H04L 1/00
H04L 1/008	H04L 1/00
H04L 1/0081	H04L 1/00
H04L 1/0082	H04L 1/00
H04L 1/0083	H04L 1/00
H04L 1/0084	H04L 1/00
H04L 1/0085	H04L 1/00
H04L 1/0086	H04L 1/00
H04L 1/0088	H04L 1/00
H04L 1/0089	H04L 1/00
H04L 1/009	H04L 1/00
H04L 1/0091	H04L 1/00
H04L 2001/0092	H04L 1/00
H04L 2001/0093	H04L 1/00
H04L 2001/0094	H04L 1/00
H04L 2001/0095	H04L 1/00
H04L 2001/0096	H04L 1/00
H04L 2001/0097	H04L 1/00
H04L 2001/0098	H04L 1/00
H04L 1/02	H04L 1/02
H04L 1/04	H04L 1/04
H04L 1/06	H04L 1/06

CPC Group	IPC Group
H04L 1/0606	H04L 1/06
H04L 1/0612	H04L 1/06
H04L 1/0618	H04L 1/06
H04L 1/0625	H04L 1/06
H04L 1/0631	H04L 1/06
H04L 1/0637	H04L 1/06
H04L 1/0643	H04L 1/06
H04L 1/065	H04L 1/06
H04L 1/0656	H04L 1/06
H04L 1/0662	H04L 1/06
H04L 1/0668	H04L 1/06
H04L 1/0675	H04L 1/06
H04L 1/0681	H04L 1/06
H04L 1/0687	H04L 1/06
H04L 1/0693	H04L 1/06
H04L 1/08	H04L 1/08
H04L 1/12	H04L 1/12
H04L 2001/125	H04L 1/12
H04L 1/14	H04L 1/14
H04L 1/16	H04L 1/16
H04L 1/1607	H04L 1/16
H04L 1/1614	H04L 1/16
H04L 1/1621	H04L 1/16
H04L 1/1628	H04L 1/16

CPC Group	IPC Group
H04L 1/1635	H04L 1/16
H04L 1/1642	H04L 1/16
H04L 1/165	H04L 1/16
H04L 1/1657	H04L 1/16
H04L 1/1664	H04L 1/16
H04L 1/1671	H04L 1/16
H04L 1/1678	H04L 1/16
H04L 1/1685	H04L 1/16
H04L 1/1692	H04L 1/16
H04L 1/18	H04L 1/18
H04L 1/1803	H04L 1/18
H04L 1/1806	H04L 1/18
H04L 1/1809	H04L 1/18
H04L 1/1812	H04L 1/18
H04L 1/1816	H04L 1/18
H04L 1/1819	H04L 1/18
H04L 1/1822	H04L 1/18
H04L 1/1825	H04L 1/18
H04L 1/1829	H04L 1/18
H04L 1/1832	H04L 1/18
H04L 1/1835	H04L 1/18
H04L 1/1838	H04L 1/18
H04L 1/1841	H04L 1/18
H04L 1/1845	H04L 1/18

CPC Group	IPC Group
H04L 1/1848	H04L 1/18
H04L 1/1851	H04L 1/18
H04L 1/1854	H04L 1/18
H04L 1/1858	H04L 1/18
H04L 1/1861	H04L 1/18
H04L 1/1864	H04L 1/18
H04L 1/1867	H04L 1/18
H04L 1/187	H04L 1/18
H04L 1/1874	H04L 1/18
H04L 1/1877	H04L 1/18
H04L 1/188	H04L 1/18
H04L 1/1883	H04L 1/18
H04L 1/1887	H04L 1/18
H04L 1/189	H04L 1/18
H04L 1/1893	H04L 1/18
H04L 1/1896	H04L 1/18
H04L 1/20	H04L 1/20
H04L 1/201	H04L 1/20
H04L 1/203	H04L 1/20
H04L 1/205	H04L 1/20
H04L 1/206	H04L 1/20
H04L 1/208	H04L 1/20
H04L 1/22	H04L 1/22
H04L 1/24	H04L 1/24

CPC Group	IPC Group
H04L 1/241	H04L 1/24
H04L 1/242	H04L 1/24
H04L 1/243	H04L 1/24
H04L 1/244	H04L 1/24
H04L 1/245	H04L 1/24
H04L 1/246	H04L 1/24
H04L 1/247	H04L 1/24
H04L 1/248	H04L 1/24
H04L 5/00	H04L 5/00
H04L 5/0001	H04L 5/00
H04L 5/0003	H04L 5/00
H04L 5/0005	H04L 5/00
H04L 5/0007	H04L 5/00
H04L 5/0008	H04L 5/00
H04L 5/001	H04L 5/00
H04L 5/0012	H04L 5/00
H04L 5/0014	H04L 5/00
H04L 5/0016	H04L 5/00
H04L 5/0017	H04L 5/00
H04L 5/0019	H04L 5/00
H04L 5/0021	H04L 5/00
H04L 5/0023	H04L 5/00
H04L 5/0025	H04L 5/00
H04L 5/0026	H04L 5/00



CPC Group	IPC Group
H04L 5/0028	H04L 5/00
H04L 5/003	H04L 5/00
H04L 5/0032	H04L 5/00
H04L 5/0033	H04L 5/00
H04L 5/0035	H04L 5/00
H04L 5/0037	H04L 5/00
H04L 5/0039	H04L 5/00
H04L 5/0041	H04L 5/00
H04L 5/0042	H04L 5/00
H04L 5/0044	H04L 5/00
H04L 5/0046	H04L 5/00
H04L 5/0048	H04L 5/00
H04L 5/005	H04L 5/00
H04L 5/0051	H04L 5/00
H04L 5/0053	H04L 5/00
H04L 5/0055	H04L 5/00
H04L 5/0057	H04L 5/00
H04L 5/0058	H04L 5/00
H04L 5/006	H04L 5/00
H04L 5/0062	H04L 5/00
H04L 5/0064	H04L 5/00
H04L 5/0066	H04L 5/00
H04L 5/0067	H04L 5/00
H04L 5/0069	H04L 5/00

<b>CPC Group</b>	<b>IPC Group</b>
H04L 5/0071	H04L 5/00
H04L 5/0073	H04L 5/00
H04L 5/0075	H04L 5/00
H04L 5/0076	H04L 5/00
H04L 5/0078	H04L 5/00
H04L 5/008	H04L 5/00
H04L 5/0082	H04L 5/00
H04L 5/0083	H04L 5/00
H04L 5/0085	H04L 5/00
H04L 5/0087	H04L 5/00
H04L 5/0089	H04L 5/00
H04L 5/0091	H04L 5/00
H04L 5/0092	H04L 5/00
H04L 5/0094	H04L 5/00
H04L 5/0096	H04L 5/00
H04L 5/0098	H04L 5/00
H04L 5/02	H04L 5/02
H04L 5/023	H04L 5/02
H04L 5/026	H04L 5/02
H04L 5/04	H04L 5/04
H04L 5/06	H04L 5/06
H04L 5/08	H04L 5/08
H04L 5/10	H04L 5/10
H04L 5/12	H04L 5/12

<b>CPC Group</b>	<b>IPC Group</b>
H04L 5/14	H04L 5/14
H04L 5/1407	H04L 5/14
H04L 5/1415	H04L 5/14
H04L 5/1423	H04L 5/14
H04L 5/143	H04L 5/14
H04L 5/1438	H04L 5/14
H04L 5/1446	H04L 5/14
H04L 5/1453	H04L 5/14
H04L 5/1461	H04L 5/14
H04L 5/1469	H04L 5/14
H04L 5/1476	H04L 5/14
H04L 5/1484	H04L 5/14
H04L 5/1492	H04L 5/14
H04L 5/16	H04L 5/16
H04L 5/18	H04L 5/18
H04L 5/20	H04L 5/20
H04L 5/22	H04L 5/22
H04L 5/225	H04L 5/22
H04L 5/24	H04L 5/24
H04L 5/245	H04L 5/24
H04L 5/26	H04L 5/26
H04L 7/00	H04L 7/00
H04L 7/0004	H04L 7/00
H04L 7/0008	H04L 7/00

CPC Group	IPC Group
H04L 7/0012	H04L 7/00
H04L 7/0016	H04L 7/00
H04L 7/002	H04L 7/00
H04L 7/0025	H04L 7/00
H04L 7/0029	H04L 7/00
H04L 7/0033	H04L 7/00
H04L 7/0037	H04L 7/00
H04L 7/0041	H04L 7/00
H04L 7/0045	H04L 7/00
H04L 7/005	H04L 7/00
H04L 7/0054	H04L 7/00
H04L 7/0058	H04L 7/00
H04L 7/0062	H04L 7/00
H04L 7/0066	H04L 7/00
H04L 7/007	H04L 7/00
H04L 7/0075	H04L 7/00
H04L 7/0079	H04L 7/00
H04L 7/0083	H04L 7/00
H04L 7/0087	H04L 7/00
H04L 7/0091	H04L 7/00
H04L 7/0095	H04L 7/00
H04L 7/02	H04L 7/02
H04L 7/027	H04L 7/027
H04L 7/0272	H04L 7/027

CPC Group	IPC Group
H04L 7/0274	H04L 7/027
H04L 7/0276	H04L 7/027
H04L 7/0278	H04L 7/027
H04L 7/033	H04L 7/033
H04L 7/0331	H04L 7/033
H04L 7/0332	H04L 7/033
H04L 7/0334	H04L 7/033
H04L 7/0335	H04L 7/033
H04L 7/0337	H04L 7/033
H04L 7/0338	H04L 7/033
H04L 7/04	H04L 7/04
H04L 7/041	H04L 7/04
H04L 7/042	H04L 7/04
H04L 7/043	H04L 7/04
H04L 7/044	H04L 7/04
H04L 2007/045	H04L 7/04
H04L 7/046	H04L 7/04
H04L 2007/047	H04L 7/04
H04L 7/048	H04L 7/04
H04L 7/06	H04L 7/06
H04L 7/065	H04L 7/06
H04L 7/08	H04L 7/08
H04L 7/10	H04L 7/10
H04L 9/00	H04L 9/00

<b>CPC Group</b>	<b>IPC Group</b>
H04L 9/001	H04L 9/00
H04L 9/002	H04L 9/00
H04L 9/003	H04L 9/00
H04L 9/004	H04L 9/00
H04L 9/005	H04L 9/00
H04L 9/006	H04L 9/00
H04L 9/007	H04L 9/00
H04L 9/008	H04L 9/00
H04L 9/06	H04L 9/06
H04L 9/0618	H04L 9/06
H04L 9/0625	H04L 9/06
H04L 9/0631	H04L 9/06
H04L 9/0637	H04L 9/06
H04L 9/0643	H04L 9/06
H04L 9/065	H04L 9/06
H04L 9/0656	H04L 9/06
H04L 9/0662	H04L 9/06
H04L 9/0668	H04L 9/06
H04L 9/08	H04L 9/08
H04L 9/0816	H04L 9/08
H04L 9/0819	H04L 9/08
H04L 9/0822	H04L 9/08
H04L 9/0825	H04L 9/08
H04L 9/0827	H04L 9/08

CPC Group	IPC Group
H04L 9/083	H04L 9/08
H04L 9/0833	H04L 9/08
H04L 9/0836	H04L 9/08
H04L 9/0838	H04L 9/08
H04L 9/0841	H04L 9/08
H04L 9/0844	H04L 9/08
H04L 9/0847	H04L 9/08
H04L 9/085	H04L 9/08
H04L 9/0852	H04L 9/08
H04L 9/0855	H04L 9/08
H04L 9/0858	H04L 9/08
H04L 9/0861	H04L 9/08
H04L 9/0863	H04L 9/08
H04L 9/0866	H04L 9/08
H04L 9/0869	H04L 9/08
H04L 9/0872	H04L 9/08
H04L 9/0875	H04L 9/08
H04L 9/0877	H04L 9/08
H04L 9/088	H04L 9/08
H04L 9/0891	H04L 9/08
H04L 9/0894	H04L 9/08
H04L 9/0897	H04L 9/08
H04L 9/10	H04L 9/10
H04L 9/12	H04L 9/12

CPC Group	IPC Group
H04L 9/14	H04L 9/14
H04L 9/16	H04L 9/16
H04L 9/30	H04L 9/30
H04L 9/3006	H04L 9/30
H04L 9/3013	H04L 9/30
H04L 9/302	H04L 9/30
H04L 9/3026	H04L 9/30
H04L 9/3033	H04L 9/30
H04L 9/304	H04L 9/30
H04L 9/3066	H04L 9/30
H04L 9/3073	H04L 9/30
H04L 9/3093	H04L 9/30
H04L 9/32	H04L 9/32
H04L 9/321	H04L 9/32
H04L 9/3213	H04L 9/32
H04L 9/3215	H04L 9/32
H04L 9/3218	H04L 9/32
H04L 9/3221	H04L 9/32
H04L 9/3226	H04L 9/32
H04L 9/3228	H04L 9/32
H04L 9/3231	H04L 9/32
H04L 9/3234	H04L 9/32
H04L 9/3236	H04L 9/32
H04L 9/3239	H04L 9/32



CPC Group	IPC Group
H04L 9/3242	H04L 9/32
H04L 9/3247	H04L 9/32
H04L 9/3249	H04L 9/32
H04L 9/3252	H04L 9/32
H04L 9/3255	H04L 9/32
H04L 9/3257	H04L 9/32
H04L 9/3263	H04L 9/32
H04L 9/3265	H04L 9/32
H04L 9/3268	H04L 9/32
H04L 9/3271	H04L 9/32
H04L 9/3273	H04L 9/32
H04L 9/3278	H04L 9/32
H04L 9/3297	H04L 9/32
H04L 9/34	H04L 9/34
H04L 9/36	H04L 9/36
H04L 9/38	H04L 9/38
H04L 12/00	H04L 12/00
H04L 12/02	H04L 12/02
H04L 12/04	H04L 12/04
H04L 12/06	H04L 12/06
H04L 12/08	H04L 12/08
H04L 12/10	H04L 12/10
H04L 12/12	H04L 12/12
H04L 12/14	H04L 12/14

CPC Group	IPC Group
H04L 12/1403	H04L 12/14
H04L 12/1407	H04L 12/14
H04L 12/141	H04L 12/14
H04L 12/1414	H04L 12/14
H04L 12/1417	H04L 12/14
H04L 12/1421	H04L 12/14
H04L 12/1425	H04L 12/14
H04L 12/1428	H04L 12/14
H04L 12/1432	H04L 12/14
H04L 12/1435	H04L 12/14
H04L 12/1439	H04L 12/14
H04L 12/1442	H04L 12/14
H04L 12/1446	H04L 12/14
H04L 12/145	H04L 12/14
H04L 12/1453	H04L 12/14
H04L 12/1457	H04L 12/14
H04L 12/146	H04L 12/14
H04L 12/1464	H04L 12/14
H04L 12/1467	H04L 12/14
H04L 12/1471	H04L 12/14
H04L 12/1475	H04L 12/14
H04L 12/1478	H04L 12/14
H04L 12/1482	H04L 12/14
H04L 12/1485	H04L 12/14

CPC Group	IPC Group
H04L 12/1489	H04L 12/14
H04L 12/1492	H04L 12/14
H04L 12/1496	H04L 12/14
H04L 12/16	H04L 12/16
H04L 12/18	H04L 12/18
H04L 12/1804	H04L 12/18
H04L 12/1809	H04L 12/18
H04L 12/1813	H04L 12/18
H04L 12/1818	H04L 12/18
H04L 12/1822	H04L 12/18
H04L 12/1827	H04L 12/18
H04L 12/1831	H04L 12/18
H04L 12/1836	H04L 12/18
H04L 12/184	H04L 12/18
H04L 12/1845	H04L 12/18
H04L 12/185	H04L 12/18
H04L 12/1854	H04L 12/18
H04L 12/1859	H04L 12/18
H04L 12/1863	H04L 12/18
H04L 12/1868	H04L 12/18
H04L 12/1872	H04L 12/18
H04L 12/1877	H04L 12/18
H04L 12/1881	H04L 12/18
H04L 12/1886	H04L 12/18

CPC Group	IPC Group
H04L 12/189	H04L 12/18
H04L 12/1895	H04L 12/18
H04L 12/22	H04L 12/22
H04L 12/28	H04L 12/28
H04L 12/2801	H04L 12/28
H04L 12/2803	H04L 12/28
H04L 12/2805	H04L 12/28
H04L 12/2807	H04L 12/28
H04L 12/2809	H04L 12/28
H04L 12/281	H04L 12/28
H04L 12/2812	H04L 12/28
H04L 12/2814	H04L 12/28
H04L 12/2816	H04L 12/28
H04L 12/2818	H04L 12/28
H04L 12/282	H04L 12/28
H04L 12/2821	H04L 12/28
H04L 12/2823	H04L 12/28
H04L 12/2825	H04L 12/28
H04L 12/2827	H04L 12/28
H04L 12/2829	H04L 12/28
H04L 12/283	H04L 12/28
H04L 12/2832	H04L 12/28
H04L 12/2834	H04L 12/28
H04L 12/2836	H04L 12/28

CPC Group	IPC Group
H04L 12/2838	H04L 12/28
H04L 2012/284	H04L 12/28
H04L 2012/2841	H04L 12/28
H04L 2012/2843	H04L 12/28
H04L 2012/2845	H04L 12/28
H04L 2012/2847	H04L 12/28
H04L 2012/2849	H04L 12/28
H04L 2012/285	H04L 12/28
H04L 12/2852	H04L 12/28
H04L 12/2854	H04L 12/28
H04L 12/2856	H04L 12/28
H04L 12/2858	H04L 12/28
H04L 12/2859	H04L 12/28
H04L 12/2861	H04L 12/28
H04L 12/2863	H04L 12/28
H04L 12/2865	H04L 12/28
H04L 12/2867	H04L 12/28
H04L 12/2869	H04L 12/28
H04L 12/287	H04L 12/28
H04L 12/2872	H04L 12/28
H04L 12/2874	H04L 12/28
H04L 12/2876	H04L 12/28
H04L 12/2878	H04L 12/28
H04L 12/2879	H04L 12/28

CPC Group	IPC Group
H04L 12/2881	H04L 12/28
H04L 12/2883	H04L 12/28
H04L 12/2885	H04L 12/28
H04L 12/2887	H04L 12/28
H04L 12/2889	H04L 12/28
H04L 12/289	H04L 12/28
H04L 12/2892	H04L 12/28
H04L 12/2894	H04L 12/28
H04L 12/2896	H04L 12/28
H04L 12/2898	H04L 12/28
H04L 12/40	H04L 12/40
H04L 12/40006	H04L 12/40
H04L 12/40013	H04L 12/40
H04L 12/40019	H04L 12/40
H04L 12/40026	H04L 12/40
H04L 12/40032	H04L 12/40
H04L 12/40039	H04L 12/40
H04L 12/40045	H04L 12/40
H04L 12/40052	H04L 12/40
H04L 12/40058	H04L 12/40
H04L 12/40065	H04L 12/40
H04L 12/40071	H04L 12/40
H04L 12/40078	H04L 12/40
H04L 12/40084	H04L 12/40

CPC Group	IPC Group
H04L 12/40091	H04L 12/40
H04L 12/40097	H04L 12/40
H04L 12/40104	H04L 12/40
H04L 12/4011	H04L 12/40
H04L 12/40117	H04L 12/40
H04L 12/40123	H04L 12/40
H04L 12/4013	H04L 12/40
H04L 12/40136	H04L 12/40
H04L 12/40143	H04L 12/40
H04L 12/4015	H04L 12/40
H04L 12/40156	H04L 12/40
H04L 12/40163	H04L 12/40
H04L 12/40169	H04L 12/40
H04L 12/40176	H04L 12/40
H04L 12/40182	H04L 12/40
H04L 12/40189	H04L 12/40
H04L 12/40195	H04L 12/40
H04L 12/40202	H04L 12/40
H04L 2012/40208	H04L 12/40
H04L 2012/40215	H04L 12/40
H04L 2012/40221	H04L 12/40
H04L 2012/40228	H04L 12/40
H04L 2012/40234	H04L 12/40
H04L 2012/40241	H04L 12/40

CPC Group	IPC Group
H04L 2012/40247	H04L 12/40
H04L 2012/40254	H04L 12/40
H04L 2012/4026	H04L 12/40
H04L 2012/40267	H04L 12/40
H04L 2012/40273	H04L 12/40
H04L 2012/4028	H04L 12/40
H04L 2012/40286	H04L 12/40
H04L 2012/40293	H04L 12/40
H04L 12/403	H04L 12/403
H04L 12/4035	H04L 12/403
H04L 12/407	H04L 12/407
H04L 12/413	H04L 12/413
H04L 12/4135	H04L 12/413
H04L 12/417	H04L 12/417
H04L 12/42	H04L 12/42
H04L 2012/421	H04L 12/42
H04L 12/422	H04L 12/42
H04L 12/423	H04L 12/423
H04L 12/427	H04L 12/427
H04L 12/43	H04L 12/43
H04L 12/433	H04L 12/433
H04L 12/437	H04L 12/437
H04L 12/44	H04L 12/44
H04L 2012/445	H04L 12/44



CPC Group	IPC Group
H04L 12/46	H04L 12/46
H04L 12/4604	H04L 12/46
H04L 12/4608	H04L 12/46
H04L 12/4612	H04L 12/46
H04L 12/4616	H04L 12/46
H04L 12/462	H04L 12/46
H04L 12/4625	H04L 12/46
H04L 2012/4629	H04L 12/46
H04L 12/4633	H04L 12/46
H04L 12/4637	H04L 12/46
H04L 12/4641	H04L 12/46
H04L 12/4645	H04L 12/46
H04L 12/465	H04L 12/46
H04L 12/4654	H04L 12/46
H04L 12/4658	H04L 12/46
H04L 12/4662	H04L 12/46
H04L 12/4666	H04L 12/46
H04L 12/467	H04L 12/46
H04L 12/4675	H04L 12/46
H04L 12/4679	H04L 12/46
H04L 12/4683	H04L 12/46
H04L 12/4687	H04L 12/46
H04L 12/4691	H04L 12/46
H04L 12/4695	H04L 12/46

CPC Group	IPC Group
H04L 12/50	H04L 12/50
H04L 12/52	H04L 12/52
H04L 12/525	H04L 12/52
H04L 12/54	H04L 12/54
H04L 12/56	H04L 12/54
H04L 12/5601	H04L 12/54
H04L 12/5602	H04L 12/54
H04L 2012/5603	H04L 12/70
H04L 2012/5604	H04L 12/70
H04L 2012/5605	H04L 12/70
H04L 2012/5606	H04L 12/70
H04L 2012/5607	H04L 12/70
H04L 2012/5608	H04L 12/70
H04L 2012/5609	H04L 12/70
H04L 2012/561	H04L 12/70
H04L 2012/5612	H04L 12/70
H04L 2012/5613	H04L 12/70
H04L 2012/5614	H04L 12/70
H04L 2012/5615	H04L 12/70
H04L 2012/5616	H04L 12/70
H04L 2012/5617	H04L 12/70
H04L 2012/5618	H04L 12/70
H04L 2012/5619	H04L 12/70
H04L 2012/562	H04L 12/70

CPC Group	IPC Group
H04L 2012/5621	H04L 12/70
H04L 2012/5623	H04L 12/70
H04L 2012/5624	H04L 12/70
H04L 2012/5625	H04L 12/70
H04L 2012/5626	H04L 12/70
H04L 2012/5627	H04L 12/70
H04L 2012/5628	H04L 12/70
H04L 2012/5629	H04L 12/70
H04L 2012/563	H04L 12/70
H04L 2012/5631	H04L 12/70
H04L 2012/5632	H04L 12/70
H04L 2012/5634	H04L 12/70
H04L 2012/5635	H04L 12/70
H04L 2012/5636	H04L 12/70
H04L 2012/5637	H04L 12/70
H04L 2012/5638	H04L 12/70
H04L 2012/5639	H04L 12/70
H04L 2012/564	H04L 12/70
H04L 2012/5641	H04L 12/70
H04L 2012/5642	H04L 12/70
H04L 2012/5643	H04L 12/70
H04L 2012/5645	H04L 12/70
H04L 2012/5646	H04L 12/70
H04L 2012/5647	H04L 12/70

CPC Group	IPC Group
H04L 2012/5648	H04L 12/70
H04L 2012/5649	H04L 12/70
H04L 2012/565	H04L 12/70
H04L 2012/5651	H04L 12/70
H04L 2012/5652	H04L 12/70
H04L 2012/5653	H04L 12/70
H04L 2012/5654	H04L 12/70
H04L 2012/5656	H04L 12/70
H04L 2012/5657	H04L 12/70
H04L 2012/5658	H04L 12/70
H04L 2012/5659	H04L 12/70
H04L 2012/566	H04L 12/70
H04L 2012/5661	H04L 12/70
H04L 2012/5662	H04L 12/70
H04L 2012/5663	H04L 12/70
H04L 2012/5664	H04L 12/70
H04L 2012/5665	H04L 12/70
H04L 2012/5667	H04L 12/70
H04L 2012/5668	H04L 12/70
H04L 2012/5669	H04L 12/70
H04L 2012/567	H04L 12/70
H04L 2012/5671	H04L 12/70
H04L 2012/5672	H04L 12/70
H04L 2012/5673	H04L 12/70

CPC Group	IPC Group
H04L 2012/5674	H04L 12/70
H04L 2012/5675	H04L 12/70
H04L 2012/5676	H04L 12/70
H04L 2012/5678	H04L 12/70
H04L 2012/5679	H04L 12/70
H04L 2012/568	H04L 12/70
H04L 2012/5681	H04L 12/70
H04L 2012/5682	H04L 12/70
H04L 2012/5683	H04L 12/70
H04L 2012/5684	H04L 12/70
H04L 2012/5685	H04L 12/70
H04L 2012/5686	H04L 12/70
H04L 2012/5687	H04L 12/70
H04L 12/5691	H04L 12/54
H04L 12/5692	H04L 12/54
H04L 12/64	H04L 12/64
H04L 12/6402	H04L 12/64
H04L 2012/6405	H04L 12/64
H04L 2012/6408	H04L 12/64
H04L 2012/641	H04L 12/64
H04L 2012/6413	H04L 12/64
H04L 2012/6416	H04L 12/64
H04L 12/6418	H04L 12/64
H04L 2012/6421	H04L 12/64

CPC Group	IPC Group
H04L 2012/6424	H04L 12/64
H04L 2012/6427	H04L 12/64
H04L 2012/6429	H04L 12/64
H04L 2012/6432	H04L 12/64
H04L 2012/6435	H04L 12/64
H04L 2012/6437	H04L 12/64
H04L 2012/6444	H04L 12/64
H04L 2012/6443	H04L 12/64
H04L 2012/6445	H04L 12/64
H04L 2012/6448	H04L 12/64
H04L 2012/6451	H04L 12/64
H04L 2012/6454	H04L 12/64
H04L 2012/6456	H04L 12/64
H04L 2012/6459	H04L 12/64
H04L 2012/6462	H04L 12/64
H04L 2012/6464	H04L 12/64
H04L 2012/6467	H04L 12/64
H04L 2012/647	H04L 12/64
H04L 2012/6472	H04L 12/64
H04L 2012/6475	H04L 12/64
H04L 2012/6478	H04L 12/64
H04L 2012/6481	H04L 12/64
H04L 2012/6483	H04L 12/64
H04L 2012/6486	H04L 12/64

CPC Group	IPC Group
H04L 2012/6489	H04L 12/64
H04L 2012/6491	H04L 12/64
H04L 2012/6494	H04L 12/64
H04L 2012/6497	H04L 12/64
H04L 12/66	H04L 12/66
H04L 13/00	H04L 13/00
H04L 13/02	H04L 13/02
H04L 13/04	H04L 13/04
H04L 13/06	H04L 13/06
H04L 13/08	H04L 13/08
H04L 13/10	H04L 13/10
H04L 13/12	H04L 13/12
H04L 13/14	H04L 13/14
H04L 13/16	H04L 13/16
H04L 13/18	H04L 13/18
H04L 13/182	H04L 13/18
H04L 13/184	H04L 13/18
H04L 13/186	H04L 13/18
H04L 13/188	H04L 13/18
H04L 15/00	H04L 15/00
H04L 15/03	H04L 15/03
H04L 15/04	H04L 15/04
H04L 15/06	H04L 15/06
H04L 15/08	H04L 15/08

CPC Group	IPC Group
H04L 15/10	H04L 15/10
H04L 15/12	H04L 15/12
H04L 15/14	H04L 15/14
H04L 15/16	H04L 15/16
H04L 15/18	H04L 15/18
H04L 15/20	H04L 15/20
H04L 15/22	H04L 15/22
H04L 15/24	H04L 15/24
H04L 15/26	H04L 15/26
H04L 15/28	H04L 15/28
H04L 15/285	H04L 15/28
H04L 15/30	H04L 15/30
H04L 15/32	H04L 15/32
H04L 15/34	H04L 15/34
H04L 17/00	H04L 17/00
H04L 17/02	H04L 17/02
H04L 17/04	H04L 17/04
H04L 17/06	H04L 17/06
H04L 17/08	H04L 17/08
H04L 17/10	H04L 17/10
H04L 17/12	H04L 17/12
H04L 17/14	H04L 17/14
H04L 17/16	H04L 17/16
H04L 17/18	H04L 17/18



CPC Group	IPC Group
H04L 17/20	H04L 17/20
H04L 17/22	H04L 17/22
H04L 17/24	H04L 17/24
H04L 17/26	H04L 17/26
H04L 17/28	H04L 17/28
H04L 17/30	H04L 17/30
H04L 19/00	H04L 19/00
H04L 21/00	H04L 21/00
H04L 21/02	H04L 21/02
H04L 21/04	H04L 21/04
H04L 23/00	H04L 23/00
H04L 23/02	H04L 23/02
H04L 25/00	H04L 25/00
H04L 25/02	H04L 25/02
H04L 25/0202	H04L 25/02
H04L 25/0204	H04L 25/02
H04L 25/0206	H04L 25/02
H04L 25/0208	H04L 25/02
H04L 25/021	H04L 25/02
H04L 25/0212	H04L 25/02
H04L 25/0214	H04L 25/02
H04L 25/0216	H04L 25/02
H04L 25/0218	H04L 25/02
H04L 25/022	H04L 25/02

CPC Group	IPC Group
H04L 25/0222	H04L 25/02
H04L 25/0224	H04L 25/02
H04L 25/0226	H04L 25/02
H04L 25/0228	H04L 25/02
H04L 25/023	H04L 25/02
H04L 25/0232	H04L 25/02
H04L 25/0234	H04L 25/02
H04L 25/0236	H04L 25/02
H04L 25/0238	H04L 25/02
H04L 25/024	H04L 25/02
H04L 25/0242	H04L 25/02
H04L 25/0244	H04L 25/02
H04L 25/0246	H04L 25/02
H04L 25/0248	H04L 25/02
H04L 25/025	H04L 25/02
H04L 25/0252	H04L 25/02
H04L 25/0254	H04L 25/02
H04L 25/0256	H04L 25/02
H04L 25/0258	H04L 25/02
H04L 25/026	H04L 25/02
H04L 25/0262	H04L 25/02
H04L 25/0264	H04L 25/02
H04L 25/0266	H04L 25/02
H04L 25/0268	H04L 25/02

CPC Group	IPC Group
H04L 25/027	H04L 25/02
H04L 25/0272	H04L 25/02
H04L 25/0274	H04L 25/02
H04L 25/0276	H04L 25/02
H04L 25/0278	H04L 25/02
H04L 25/028	H04L 25/02
H04L 25/0282	H04L 25/02
H04L 25/0284	H04L 25/02
H04L 25/0286	H04L 25/02
H04L 25/0288	H04L 25/02
H04L 25/029	H04L 25/02
H04L 25/0292	H04L 25/02
H04L 25/0294	H04L 25/02
H04L 25/0296	H04L 25/02
H04L 25/0298	H04L 25/02
H04L 25/03	H04L 25/03
H04L 25/03006	H04L 25/03
H04L 25/03012	H04L 25/03
H04L 25/03019	H04L 25/03
H04L 25/03025	H04L 25/03
H04L 25/03031	H04L 25/03
H04L 25/03038	H04L 25/03
H04L 25/03044	H04L 25/03
H04L 25/0305	H04L 25/03

CPC Group	IPC Group
H04L 25/03057	H04L 25/03
H04L 25/03063	H04L 25/03
H04L 25/0307	H04L 25/03
H04L 25/03076	H04L 25/03
H04L 25/03082	H04L 25/03
H04L 25/03089	H04L 25/03
H04L 25/03095	H04L 25/03
H04L 25/03101	H04L 25/03
H04L 25/03108	H04L 25/03
H04L 25/03114	H04L 25/03
H04L 25/03121	H04L 25/03
H04L 25/03127	H04L 25/03
H04L 25/03133	H04L 25/03
H04L 25/0314	H04L 25/03
H04L 25/03146	H04L 25/03
H04L 25/03152	H04L 25/03
H04L 25/03159	H04L 25/03
H04L 25/03165	H04L 25/03
H04L 25/03171	H04L 25/03
H04L 25/03178	H04L 25/03
H04L 25/03184	H04L 25/03
H04L 25/03191	H04L 25/03
H04L 25/03197	H04L 25/03
H04L 25/03203	H04L 25/03

CPC Group	IPC Group
H04L 25/0321	H04L 25/03
H04L 25/03216	H04L 25/03
H04L 25/03222	H04L 25/03
H04L 25/03229	H04L 25/03
H04L 25/03235	H04L 25/03
H04L 25/03242	H04L 25/03
H04L 25/03248	H04L 25/03
H04L 25/03254	H04L 25/03
H04L 25/03261	H04L 25/03
H04L 25/03267	H04L 25/03
H04L 25/03273	H04L 25/03
H04L 25/0328	H04L 25/03
H04L 25/03286	H04L 25/03
H04L 25/03292	H04L 25/03
H04L 25/03299	H04L 25/03
H04L 25/03305	H04L 25/03
H04L 25/03312	H04L 25/03
H04L 25/03318	H04L 25/03
H04L 25/03324	H04L 25/03
H04L 25/03331	H04L 25/03
H04L 25/03337	H04L 25/03
H04L 25/03343	H04L 25/03
H04L 2025/0335	H04L 25/03
H04L 2025/03356	H04L 25/03

CPC Group	IPC Group
H04L 2025/03363	H04L 25/03
H04L 2025/03369	H04L 25/03
H04L 2025/03375	H04L 25/03
H04L 2025/03382	H04L 25/03
H04L 2025/03388	H04L 25/03
H04L 2025/03394	H04L 25/03
H04L 2025/03401	H04L 25/03
H04L 2025/03407	H04L 25/03
H04L 2025/03414	H04L 25/03
H04L 2025/0342	H04L 25/03
H04L 2025/03426	H04L 25/03
H04L 2025/03433	H04L 25/03
H04L 2025/03439	H04L 25/03
H04L 2025/03445	H04L 25/03
H04L 2025/03452	H04L 25/03
H04L 2025/03458	H04L 25/03
H04L 2025/03464	H04L 25/03
H04L 2025/03471	H04L 25/03
H04L 2025/03477	H04L 25/03
H04L 2025/03484	H04L 25/03
H04L 2025/0349	H04L 25/03
H04L 2025/03496	H04L 25/03
H04L 2025/03503	H04L 25/03
H04L 2025/03509	H04L 25/03

CPC Group	IPC Group
H04L 2025/03515	H04L 25/03
H04L 2025/03522	H04L 25/03
H04L 2025/03528	H04L 25/03
H04L 2025/03535	H04L 25/03
H04L 2025/03541	H04L 25/03
H04L 2025/03547	H04L 25/03
H04L 2025/03554	H04L 25/03
H04L 2025/0356	H04L 25/03
H04L 2025/03566	H04L 25/03
H04L 2025/03573	H04L 25/03
H04L 2025/03579	H04L 25/03
H04L 2025/03585	H04L 25/03
H04L 2025/03592	H04L 25/03
H04L 2025/03598	H04L 25/03
H04L 2025/03605	H04L 25/03
H04L 2025/03611	H04L 25/03
H04L 2025/03617	H04L 25/03
H04L 2025/03624	H04L 25/03
H04L 2025/0363	H04L 25/03
H04L 2025/03636	H04L 25/03
H04L 2025/03643	H04L 25/03
H04L 2025/03649	H04L 25/03
H04L 2025/03656	H04L 25/03
H04L 2025/03662	H04L 25/03

CPC Group	IPC Group
H04L 2025/03668	H04L 25/03
H04L 2025/03675	H04L 25/03
H04L 2025/03681	H04L 25/03
H04L 2025/03687	H04L 25/03
H04L 2025/03694	H04L 25/03
H04L 2025/037	H04L 25/03
H04L 2025/03707	H04L 25/03
H04L 2025/03713	H04L 25/03
H04L 2025/03719	H04L 25/03
H04L 2025/03726	H04L 25/03
H04L 2025/03732	H04L 25/03
H04L 2025/03738	H04L 25/03
H04L 2025/03745	H04L 25/03
H04L 2025/03751	H04L 25/03
H04L 2025/03757	H04L 25/03
H04L 2025/03764	H04L 25/03
H04L 2025/0377	H04L 25/03
H04L 2025/03777	H04L 25/03
H04L 2025/03783	H04L 25/03
H04L 2025/03789	H04L 25/03
H04L 2025/03796	H04L 25/03
H04L 2025/03802	H04L 25/03
H04L 2025/03808	H04L 25/03
H04L 2025/03815	H04L 25/03



CPC Group	IPC Group
H04L 25/03821	H04L 25/03
H04L 25/03828	H04L 25/03
H04L 25/03834	H04L 25/03
H04L 25/0384	H04L 25/03
H04L 25/03847	H04L 25/03
H04L 25/03853	H04L 25/03
H04L 25/03859	H04L 25/03
H04L 25/03866	H04L 25/03
H04L 25/03872	H04L 25/03
H04L 25/03878	H04L 25/03
H04L 25/03885	H04L 25/03
H04L 25/03891	H04L 25/03
H04L 25/03898	H04L 25/03
H04L 25/03904	H04L 25/03
H04L 25/0391	H04L 25/03
H04L 25/03917	H04L 25/03
H04L 25/03923	H04L 25/03
H04L 25/03929	H04L 25/03
H04L 25/03936	H04L 25/03
H04L 25/03942	H04L 25/03
H04L 25/03949	H04L 25/03
H04L 25/03955	H04L 25/03
H04L 25/03961	H04L 25/03
H04L 25/03968	H04L 25/03

CPC Group	IPC Group
H04L 25/03974	H04L 25/03
H04L 25/0398	H04L 25/03
H04L 25/03987	H04L 25/03
H04L 25/03993	H04L 25/03
H04L 25/05	H04L 25/05
H04L 25/06	H04L 25/06
H04L 25/061	H04L 25/06
H04L 25/062	H04L 25/06
H04L 25/063	H04L 25/06
H04L 25/064	H04L 25/06
H04L 25/065	H04L 25/06
H04L 25/066	H04L 25/06
H04L 25/067	H04L 25/06
H04L 25/068	H04L 25/06
H04L 25/069	H04L 25/06
H04L 25/08	H04L 25/08
H04L 25/085	H04L 25/08
H04L 25/10	H04L 25/10
H04L 25/12	H04L 25/12
H04L 25/14	H04L 25/14
H04L 25/20	H04L 25/20
H04L 25/202	H04L 25/20
H04L 25/205	H04L 25/20
H04L 25/207	H04L 25/20

CPC Group	IPC Group
H04L 25/22	H04L 25/22
H04L 25/24	H04L 25/24
H04L 25/242	H04L 25/24
H04L 25/245	H04L 25/24
H04L 25/247	H04L 25/24
H04L 25/26	H04L 25/26
H04L 25/38	H04L 25/38
H04L 25/40	H04L 25/40
H04L 25/42	H04L 25/42
H04L 25/44	H04L 25/44
H04L 25/45	H04L 25/45
H04L 25/46	H04L 25/46
H04L 25/49	H04L 25/49
H04L 25/4902	H04L 25/49
H04L 25/4904	H04L 25/49
H04L 25/4906	H04L 25/49
H04L 25/4908	H04L 25/49
H04L 25/491	H04L 25/49
H04L 25/4912	H04L 25/49
H04L 25/4915	H04L 25/49
H04L 25/4917	H04L 25/49
H04L 25/4919	H04L 25/49
H04L 25/4921	H04L 25/49
H04L 25/4923	H04L 25/49

CPC Group	IPC Group
H04L 25/4925	H04L 25/49
H04L 25/4927	H04L 25/49
H04L 25/493	H04L 25/493
H04L 25/497	H04L 25/497
H04L 25/4975	H04L 25/497
H04L 27/00	H04L 27/00
H04L 27/0002	H04L 27/00
H04L 27/0004	H04L 27/00
H04L 27/0006	H04L 27/00
H04L 27/0008	H04L 27/00
H04L 27/001	H04L 27/00
H04L 27/0012	H04L 27/00
H04L 27/0014	H04L 27/00
H04L 2027/0016	H04L 27/00
H04L 2027/0018	H04L 27/00
H04L 2027/002	H04L 27/00
H04L 2027/0022	H04L 27/00
H04L 2027/0024	H04L 27/00
H04L 2027/0026	H04L 27/00
H04L 2027/0028	H04L 27/00
H04L 2027/003	H04L 27/00
H04L 2027/0032	H04L 27/00
H04L 2027/0034	H04L 27/00
H04L 2027/0036	H04L 27/00

CPC Group	IPC Group
H04L 2027/0038	H04L 27/00
H04L 2027/004	H04L 27/00
H04L 2027/0042	H04L 27/00
H04L 2027/0044	H04L 27/00
H04L 2027/0046	H04L 27/00
H04L 2027/0048	H04L 27/00
H04L 2027/0051	H04L 27/00
H04L 2027/0053	H04L 27/00
H04L 2027/0055	H04L 27/00
H04L 2027/0057	H04L 27/00
H04L 2027/0059	H04L 27/00
H04L 2027/0061	H04L 27/00
H04L 2027/0063	H04L 27/00
H04L 2027/0065	H04L 27/00
H04L 2027/0067	H04L 27/00
H04L 2027/0069	H04L 27/00
H04L 2027/0071	H04L 27/00
H04L 2027/0073	H04L 27/00
H04L 2027/0075	H04L 27/00
H04L 2027/0077	H04L 27/00
H04L 2027/0079	H04L 27/00
H04L 2027/0081	H04L 27/00
H04L 2027/0083	H04L 27/00
H04L 2027/0085	H04L 27/00

CPC Group	IPC Group
H04L 2027/0087	H04L 27/00
H04L 2027/0089	H04L 27/00
H04L 2027/0091	H04L 27/00
H04L 2027/0093	H04L 27/00
H04L 2027/0095	H04L 27/00
H04L 2027/0097	H04L 27/00
H04L 27/01	H04L 27/01
H04L 27/02	H04L 27/02
H04L 27/04	H04L 27/04
H04L 27/06	H04L 27/06
H04L 27/063	H04L 27/06
H04L 27/066	H04L 27/06
H04L 27/08	H04L 27/08
H04L 27/10	H04L 27/10
H04L 27/103	H04L 27/10
H04L 27/106	H04L 27/10
H04L 27/12	H04L 27/12
H04L 27/122	H04L 27/12
H04L 27/125	H04L 27/12
H04L 27/127	H04L 27/12
H04L 27/14	H04L 27/14
H04L 27/142	H04L 27/14
H04L 27/144	H04L 27/144
H04L 27/148	H04L 27/148

CPC Group	IPC Group
H04L 27/152	H04L 27/152
H04L 27/1525	H04L 27/152
H04L 27/156	H04L 27/156
H04L 27/1563	H04L 27/156
H04L 27/1566	H04L 27/156
H04L 27/16	H04L 27/16
H04L 27/18	H04L 27/18
H04L 27/183	H04L 27/18
H04L 27/186	H04L 27/18
H04L 27/20	H04L 27/20
H04L 27/2003	H04L 27/20
H04L 27/2007	H04L 27/20
H04L 27/201	H04L 27/20
H04L 27/2014	H04L 27/20
H04L 27/2017	H04L 27/20
H04L 27/2021	H04L 27/20
H04L 27/2025	H04L 27/20
H04L 27/2028	H04L 27/20
H04L 27/2032	H04L 27/20
H04L 27/2035	H04L 27/20
H04L 27/2039	H04L 27/20
H04L 27/2042	H04L 27/20
H04L 27/2046	H04L 27/20
H04L 27/205	H04L 27/20

CPC Group	IPC Group
H04L 27/2053	H04L 27/20
H04L 27/2057	H04L 27/20
H04L 27/206	H04L 27/20
H04L 27/2064	H04L 27/20
H04L 27/2067	H04L 27/20
H04L 27/2071	H04L 27/20
H04L 27/2075	H04L 27/20
H04L 27/2078	H04L 27/20
H04L 27/2082	H04L 27/20
H04L 27/2085	H04L 27/20
H04L 27/2089	H04L 27/20
H04L 27/2092	H04L 27/20
H04L 27/2096	H04L 27/20
H04L 27/22	H04L 27/22
H04L 27/223	H04L 27/22
H04L 27/227	H04L 27/227
H04L 27/2271	H04L 27/227
H04L 27/2272	H04L 27/227
H04L 27/2273	H04L 27/227
H04L 27/2275	H04L 27/227
H04L 27/2276	H04L 27/227
H04L 27/2277	H04L 27/227
H04L 27/2278	H04L 27/227
H04L 27/233	H04L 27/233



CPC Group	IPC Group
H04L 27/2331	H04L 27/233
H04L 27/2332	H04L 27/233
H04L 27/2334	H04L 27/233
H04L 27/2335	H04L 27/233
H04L 27/2337	H04L 27/233
H04L 27/2338	H04L 27/233
H04L 27/24	H04L 27/24
H04L 27/26	H04L 27/26
H04L 27/2601	H04L 27/26
H04L 27/2602	H04L 27/26
H04L 27/2604	H04L 27/26
H04L 27/2605	H04L 27/26
H04L 27/2607	H04L 27/26
H04L 27/2608	H04L 27/26
H04L 27/261	H04L 27/26
H04L 27/2611	H04L 27/26
H04L 27/2613	H04L 27/26
H04L 27/2614	H04L 27/26
H04L 27/2615	H04L 27/26
H04L 27/2617	H04L 27/26
H04L 27/2618	H04L 27/26
H04L 27/262	H04L 27/26
H04L 27/2621	H04L 27/26
H04L 27/2623	H04L 27/26

CPC Group	IPC Group
H04L 27/2624	H04L 27/26
H04L 27/2626	H04L 27/26
H04L 27/2627	H04L 27/26
H04L 27/2628	H04L 27/26
H04L 27/263	H04L 27/26
H04L 27/2631	H04L 27/26
H04L 27/2633	H04L 27/26
H04L 27/2634	H04L 27/26
H04L 27/2636	H04L 27/26
H04L 27/2637	H04L 27/26
H04L 27/2639	H04L 27/26
H04L 27/264	H04L 27/26
H04L 27/2642	H04L 27/26
H04L 27/2643	H04L 27/26
H04L 27/2644	H04L 27/26
H04L 27/2646	H04L 27/26
H04L 27/2647	H04L 27/26
H04L 27/2649	H04L 27/26
H04L 27/265	H04L 27/26
H04L 27/2652	H04L 27/26
H04L 27/2653	H04L 27/26
H04L 27/2655	H04L 27/26
H04L 27/2656	H04L 27/26
H04L 27/2657	H04L 27/26

CPC Group	IPC Group
H04L 27/2659	H04L 27/26
H04L 27/266	H04L 27/26
H04L 27/2662	H04L 27/26
H04L 27/2663	H04L 27/26
H04L 27/2665	H04L 27/26
H04L 27/2666	H04L 27/26
H04L 27/2668	H04L 27/26
H04L 27/2669	H04L 27/26
H04L 27/2671	H04L 27/26
H04L 27/2672	H04L 27/26
H04L 27/2673	H04L 27/26
H04L 27/2675	H04L 27/26
H04L 27/2676	H04L 27/26
H04L 27/2678	H04L 27/26
H04L 27/2679	H04L 27/26
H04L 27/2681	H04L 27/26
H04L 27/2682	H04L 27/26
H04L 27/2684	H04L 27/26
H04L 27/2685	H04L 27/26
H04L 27/2686	H04L 27/26
H04L 27/2688	H04L 27/26
H04L 27/2689	H04L 27/26
H04L 27/2691	H04L 27/26
H04L 27/2692	H04L 27/26

CPC Group	IPC Group
H04L 27/2694	H04L 27/26
H04L 27/2695	H04L 27/26
H04L 27/2697	H04L 27/26
H04L 27/2698	H04L 27/26
H04L 27/28	H04L 27/28
H04L 27/30	H04L 27/30
H04L 27/32	H04L 27/32
H04L 27/34	H04L 27/34
H04L 27/3405	H04L 27/34
H04L 27/3411	H04L 27/34
H04L 27/3416	H04L 27/34
H04L 27/3422	H04L 27/34
H04L 27/3427	H04L 27/34
H04L 27/3433	H04L 27/34
H04L 27/3438	H04L 27/34
H04L 27/3444	H04L 27/34
H04L 27/345	H04L 27/34
H04L 27/3455	H04L 27/34
H04L 27/3461	H04L 27/34
H04L 27/3466	H04L 27/34
H04L 27/3472	H04L 27/34
H04L 27/3477	H04L 27/34
H04L 27/3483	H04L 27/34
H04L 27/3488	H04L 27/34

CPC Group	IPC Group
H04L 27/3494	H04L 27/34
H04L 27/36	H04L 27/36
H04L 27/361	H04L 27/36
H04L 27/362	H04L 27/36
H04L 27/363	H04L 27/36
H04L 27/364	H04L 27/36
H04L 27/365	H04L 27/36
H04L 27/366	H04L 27/36
H04L 27/367	H04L 27/36
H04L 27/368	H04L 27/36
H04L 27/38	H04L 27/38
H04L 27/3809	H04L 27/38
H04L 27/3818	H04L 27/38
H04L 27/3827	H04L 27/38
H04L 27/3836	H04L 27/38
H04L 27/3845	H04L 27/38
H04L 27/3854	H04L 27/38
H04L 27/3863	H04L 27/38
H04L 27/3872	H04L 27/38
H04L 27/3881	H04L 27/38
H04L 27/389	H04L 27/38
H04L 29/00	H04L 29/00
H04L 29/02	H04L 29/02
H04L 29/04	H04L 29/04

CPC Group	IPC Group
H04L 29/06	H04L 29/06
H04L 29/06006	H04L 29/06
H04L 29/06013	H04L 29/06
H04L 29/0602	H04L 29/06
H04L 29/06027	H04L 29/06
H04L 29/06034	H04L 29/06
H04L 29/0604	H04L 29/06
H04L 29/06047	H04L 29/06
H04L 2029/06054	H04L 29/06
H04L 29/06061	H04L 29/06
H04L 29/06068	H04L 29/06
H04L 29/06074	H04L 29/06
H04L 29/06081	H04L 29/06
H04L 29/06088	H04L 29/06
H04L 29/06095	H04L 29/06
H04L 29/06102	H04L 29/06
H04L 29/06108	H04L 29/06
H04L 29/06115	H04L 29/06
H04L 29/06122	H04L 29/06
H04L 29/06129	H04L 29/06
H04L 29/06136	H04L 29/06
H04L 29/06142	H04L 29/06
H04L 29/06149	H04L 29/06
H04L 29/06156	H04L 29/06

CPC Group	IPC Group
H04L 29/06163	H04L 29/06
H04L 29/0617	H04L 29/06
H04L 29/06176	H04L 29/06
H04L 29/06183	H04L 29/06
H04L 29/0619	H04L 29/06
H04L 29/06197	H04L 29/06
H04L 29/06204	H04L 29/06
H04L 29/0621	H04L 29/06
H04L 29/06217	H04L 29/06
H04L 29/06224	H04L 29/06
H04L 29/06231	H04L 29/06
H04L 29/06238	H04L 29/06
H04L 29/06244	H04L 29/06
H04L 29/06251	H04L 29/06
H04L 29/06258	H04L 29/06
H04L 29/06265	H04L 29/06
H04L 29/06272	H04L 29/06
H04L 29/06278	H04L 29/06
H04L 29/06285	H04L 29/06
H04L 29/06292	H04L 29/06
H04L 29/06299	H04L 29/06
H04L 29/06306	H04L 29/06
H04L 29/06312	H04L 29/06
H04L 29/06319	H04L 29/06

CPC Group	IPC Group
H04L 29/06326	H04L 29/06
H04L 29/06333	H04L 29/06
H04L 29/06334	H04L 29/06
H04L 29/06346	H04L 29/06
H04L 29/06353	H04L 29/06
H04L 29/0636	H04L 29/06
H04L 29/06367	H04L 29/06
H04L 29/06374	H04L 29/06
H04L 29/0638	H04L 29/06
H04L 29/06387	H04L 29/06
H04L 29/06394	H04L 29/06
H04L 29/06401	H04L 29/06
H04L 29/06408	H04L 29/06
H04L 29/06414	H04L 29/06
H04L 29/06421	H04L 29/06
H04L 29/06428	H04L 29/06
H04L 29/06435	H04L 29/06
H04L 29/06442	H04L 29/06
H04L 29/06448	H04L 29/06
H04L 29/06455	H04L 29/06
H04L 29/06462	H04L 29/06
H04L 29/06469	H04L 29/06
H04L 29/06476	H04L 29/06
H04L 29/06482	H04L 29/06



CPC Group	IPC Group
H04L 29/06489	H04L 29/06
H04L 29/06496	H04L 29/06
H04L 29/06503	H04L 29/06
H04L 29/0651	H04L 29/06
H04L 29/06517	H04L 29/06
H04L 29/06523	H04L 29/06
H04L 29/0653	H04L 29/06
H04L 29/06537	H04L 29/06
H04L 29/06544	H04L 29/06
H04L 29/06551	H04L 29/06
H04L 29/06557	H04L 29/06
H04L 29/06564	H04L 29/06
H04L 29/06571	H04L 29/06
H04L 29/06578	H04L 29/06
H04L 29/06585	H04L 29/06
H04L 29/06591	H04L 29/06
H04L 29/06598	H04L 29/06
H04L 29/06605	H04L 29/06
H04L 29/06612	H04L 29/06
H04L 29/06619	H04L 29/06
H04L 29/06625	H04L 29/06
H04L 29/06632	H04L 29/06
H04L 29/06639	H04L 29/06
H04L 29/06646	H04L 29/06

CPC Group	IPC Group
H04L 29/06653	H04L 29/06
H04L 29/06659	H04L 29/06
H04L 29/06666	H04L 29/06
H04L 29/06673	H04L 29/06
H04L 29/0668	H04L 29/06
H04L 29/06687	H04L 29/06
H04L 29/06693	H04L 29/06
H04L 29/067	H04L 29/06
H04L 29/06707	H04L 29/06
H04L 29/06714	H04L 29/06
H04L 29/06721	H04L 29/06
H04L 29/06727	H04L 29/06
H04L 29/06734	H04L 29/06
H04L 29/06741	H04L 29/06
H04L 29/06748	H04L 29/06
H04L 29/06755	H04L 29/06
H04L 29/06761	H04L 29/06
H04L 29/06768	H04L 29/06
H04L 29/06775	H04L 29/06
H04L 29/06782	H04L 29/06
H04L 29/06789	H04L 29/06
H04L 29/06795	H04L 29/06
H04L 29/06802	H04L 29/06
H04L 29/06809	H04L 29/06

CPC Group	IPC Group
H04L 29/06816	H04L 29/06
H04L 29/06823	H04L 29/06
H04L 29/06829	H04L 29/06
H04L 29/06836	H04L 29/06
H04L 29/06843	H04L 29/06
H04L 29/0685	H04L 29/06
H04L 29/06857	H04L 29/06
H04L 29/06863	H04L 29/06
H04L 29/0687	H04L 29/06
H04L 29/06877	H04L 29/06
H04L 29/06884	H04L 29/06
H04L 29/06891	H04L 29/06
H04L 29/06897	H04L 29/06
H04L 29/06904	H04L 29/06
H04L 29/06911	H04L 29/06
H04L 29/06918	H04L 29/06
H04L 29/06925	H04L 29/06
H04L 29/06931	H04L 29/06
H04L 29/06938	H04L 29/06
H04L 29/06945	H04L 29/06
H04L 29/06952	H04L 29/06
H04L 29/06959	H04L 29/06
H04L 29/06965	H04L 29/06
H04L 29/06972	H04L 29/06

CPC Group	IPC Group
H04L 29/06979	H04L 29/06
H04L 29/06986	H04L 29/06
H04L 29/06993	H04L 29/06
H04L 29/08	H04L 29/08
H04L 29/08009	H04L 29/08
H04L 29/08018	H04L 29/08
H04L 29/08027	H04L 29/08
H04L 29/08036	H04L 29/08
H04L 29/08045	H04L 29/08
H04L 29/08054	H04L 29/08
H04L 29/08063	H04L 29/08
H04L 29/08072	H04L 29/08
H04L 29/08081	H04L 29/08
H04L 29/0809	H04L 29/08
H04L 29/08099	H04L 29/08
H04L 29/08108	H04L 29/08
H04L 29/08117	H04L 29/08
H04L 29/08126	H04L 29/08
H04L 29/08135	H04L 29/08
H04L 29/08144	H04L 29/08
H04L 29/08153	H04L 29/08
H04L 29/08162	H04L 29/08
H04L 29/08171	H04L 29/08
H04L 29/0818	H04L 29/08

CPC Group	IPC Group
H04L 29/08189	H04L 29/08
H04L 29/08198	H04L 29/08
H04L 29/08207	H04L 29/08
H04L 29/08216	H04L 29/08
H04L 29/08225	H04L 29/08
H04L 29/08234	H04L 29/08
H04L 29/08243	H04L 29/08
H04L 29/08252	H04L 29/08
H04L 29/08261	H04L 29/08
H04L 29/0827	H04L 29/08
H04L 29/08279	H04L 29/08
H04L 29/08288	H04L 29/08
H04L 29/08297	H04L 29/08
H04L 29/08306	H04L 29/08
H04L 29/08315	H04L 29/08
H04L 29/08324	H04L 29/08
H04L 29/08333	H04L 29/08
H04L 29/08342	H04L 29/08
H04L 29/08351	H04L 29/08
H04L 29/0836	H04L 29/08
H04L 29/08369	H04L 29/08
H04L 29/08378	H04L 29/08
H04L 29/08387	H04L 29/08
H04L 29/08396	H04L 29/08

CPC Group	IPC Group
H04L 29/08405	H04L 29/08
H04L 29/08414	H04L 29/08
H04L 29/08423	H04L 29/08
H04L 29/08432	H04L 29/08
H04L 29/08441	H04L 29/08
H04L 29/0845	H04L 29/08
H04L 29/08459	H04L 29/08
H04L 29/08468	H04L 29/08
H04L 29/08477	H04L 29/08
H04L 29/08486	H04L 29/08
H04L 29/08495	H04L 29/08
H04L 29/08504	H04L 29/08
H04L 29/08513	H04L 29/08
H04L 29/08522	H04L 29/08
H04L 29/08531	H04L 29/08
H04L 29/0854	H04L 29/08
H04L 29/08549	H04L 29/08
H04L 29/08558	H04L 29/08
H04L 29/08567	H04L 29/08
H04L 29/08576	H04L 29/08
H04L 29/08585	H04L 29/08
H04L 29/08594	H04L 29/08
H04L 29/08603	H04L 29/08
H04L 29/08612	H04L 29/08

CPC Group	IPC Group
H04L 29/08621	H04L 29/08
H04L 29/0863	H04L 29/08
H04L 29/08639	H04L 29/08
H04L 29/08648	H04L 29/08
H04L 29/08657	H04L 29/08
H04L 29/08666	H04L 29/08
H04L 29/08675	H04L 29/08
H04L 29/08684	H04L 29/08
H04L 29/08693	H04L 29/08
H04L 29/08702	H04L 29/08
H04L 29/08711	H04L 29/08
H04L 29/0872	H04L 29/08
H04L 29/08729	H04L 29/08
H04L 29/08738	H04L 29/08
H04L 29/08747	H04L 29/08
H04L 29/08756	H04L 29/08
H04L 29/08765	H04L 29/08
H04L 29/08774	H04L 29/08
H04L 29/08783	H04L 29/08
H04L 29/08792	H04L 29/08
H04L 29/08801	H04L 29/08
H04L 29/0881	H04L 29/08
H04L 29/08819	H04L 29/08
H04L 29/08828	H04L 29/08

CPC Group	IPC Group
H04L 29/08837	H04L 29/08
H04L 29/08846	H04L 29/08
H04L 29/08855	H04L 29/08
H04L 29/08864	H04L 29/08
H04L 29/08873	H04L 29/08
H04L 29/08882	H04L 29/08
H04L 29/08891	H04L 29/08
H04L 29/089	H04L 29/08
H04L 29/08909	H04L 29/08
H04L 29/08918	H04L 29/08
H04L 29/08927	H04L 29/08
H04L 29/08936	H04L 29/08
H04L 29/08945	H04L 29/08
H04L 29/08954	H04L 29/08
H04L 29/08963	H04L 29/08
H04L 29/08972	H04L 29/08
H04L 29/08981	H04L 29/08
H04L 29/0899	H04L 29/08
H04L 29/10	H04L 29/10
H04L 29/12	H04L 29/12
H04L 29/12009	H04L 29/12
H04L 29/12018	H04L 29/12
H04L 29/12028	H04L 29/12
H04L 29/12037	H04L 29/12



CPC Group	IPC Group
H04L 29/12047	H04L 29/12
H04L 29/12056	H04L 29/12
H04L 29/12066	H04L 29/12
H04L 29/12075	H04L 29/12
H04L 29/12084	H04L 29/12
H04L 29/12094	H04L 29/12
H04L 29/12103	H04L 29/12
H04L 29/12113	H04L 29/12
H04L 29/12122	H04L 29/12
H04L 29/12132	H04L 29/12
H04L 29/12141	H04L 29/12
H04L 29/1215	H04L 29/12
H04L 29/1216	H04L 29/12
H04L 29/12169	H04L 29/12
H04L 29/12179	H04L 29/12
H04L 29/12188	H04L 29/12
H04L 29/12198	H04L 29/12
H04L 29/12207	H04L 29/12
H04L 29/12216	H04L 29/12
H04L 29/12226	H04L 29/12
H04L 29/12235	H04L 29/12
H04L 29/12245	H04L 29/12
H04L 29/12254	H04L 29/12
H04L 29/12264	H04L 29/12

CPC Group	IPC Group
H04L 29/12273	H04L 29/12
H04L 29/12283	H04L 29/12
H04L 29/12292	H04L 29/12
H04L 29/12301	H04L 29/12
H04L 29/12311	H04L 29/12
H04L 29/1232	H04L 29/12
H04L 29/1233	H04L 29/12
H04L 29/12339	H04L 29/12
H04L 29/12349	H04L 29/12
H04L 29/12358	H04L 29/12
H04L 29/12367	H04L 29/12
H04L 29/12377	H04L 29/12
H04L 29/12386	H04L 29/12
H04L 29/12396	H04L 29/12
H04L 29/12405	H04L 29/12
H04L 29/12415	H04L 29/12
H04L 29/12424	H04L 29/12
H04L 29/12433	H04L 29/12
H04L 29/12443	H04L 29/12
H04L 29/12452	H04L 29/12
H04L 29/12462	H04L 29/12
H04L 29/12471	H04L 29/12
H04L 29/12481	H04L 29/12
H04L 29/1249	H04L 29/12

CPC Group	IPC Group
H04L 29/125	H04L 29/12
H04L 29/12509	H04L 29/12
H04L 29/12518	H04L 29/12
H04L 29/12528	H04L 29/12
H04L 29/12537	H04L 29/12
H04L 29/12547	H04L 29/12
H04L 29/12556	H04L 29/12
H04L 29/12566	H04L 29/12
H04L 29/12575	H04L 29/12
H04L 29/12584	H04L 29/12
H04L 29/12594	H04L 29/12
H04L 29/12603	H04L 29/12
H04L 29/12613	H04L 29/12
H04L 29/12622	H04L 29/12
H04L 29/12632	H04L 29/12
H04L 29/12641	H04L 29/12
H04L 29/1265	H04L 29/12
H04L 29/1266	H04L 29/12
H04L 29/12669	H04L 29/12
H04L 29/12679	H04L 29/12
H04L 29/12688	H04L 29/12
H04L 29/12698	H04L 29/12
H04L 29/12707	H04L 29/12
H04L 29/12716	H04L 29/12

CPC Group	IPC Group
H04L 29/12726	H04L 29/12
H04L 29/12735	H04L 29/12
H04L 29/12745	H04L 29/12
H04L 29/12754	H04L 29/12
H04L 29/12764	H04L 29/12
H04L 29/12773	H04L 29/12
H04L 29/12783	H04L 29/12
H04L 29/12792	H04L 29/12
H04L 29/12801	H04L 29/12
H04L 29/12811	H04L 29/12
H04L 29/1282	H04L 29/12
H04L 29/1283	H04L 29/12
H04L 29/12839	H04L 29/12
H04L 29/12849	H04L 29/12
H04L 29/12858	H04L 29/12
H04L 29/12867	H04L 29/12
H04L 29/12877	H04L 29/12
H04L 29/12886	H04L 29/12
H04L 29/12896	H04L 29/12
H04L 29/12905	H04L 29/12
H04L 29/12915	H04L 29/12
H04L 29/12924	H04L 29/12
H04L 29/12933	H04L 29/12
H04L 29/12943	H04L 29/12

CPC Group	IPC Group
H04L 29/12952	H04L 29/12
H04L 29/12962	H04L 29/12
H04L 29/12971	H04L 29/12
H04L 29/12981	H04L 29/12
H04L 29/1299	H04L 29/12
H04L 29/14	H04L 29/14
H04L 41/00	H04L 12/24
H04L 41/02	H04L 12/24
H04L 41/0206	H04L 12/24
H04L 41/0213	H04L 12/24
H04L 41/022	H04L 12/24
H04L 41/0226	H04L 12/24
H04L 41/0233	H04L 12/24
H04L 41/024	H04L 12/24
H04L 41/0246	H04L 12/24
H04L 41/0253	H04L 12/24
H04L 41/026	H04L 12/24
H04L 41/0266	H04L 12/24
H04L 41/0273	H04L 12/24
H04L 41/028	H04L 12/24
H04L 41/0286	H04L 12/24
H04L 41/0293	H04L 12/24
H04L 41/04	H04L 12/24
H04L 41/042	H04L 12/24

CPC Group	IPC Group
H04L 41/044	H04L 12/24
H04L 41/046	H04L 12/24
H04L 41/048	H04L 12/24
H04L 41/06	H04L 12/24
H04L 41/0604	H04L 12/24
H04L 41/0609	H04L 12/24
H04L 41/0613	H04L 12/24
H04L 41/0618	H04L 12/24
H04L 41/0622	H04L 12/24
H04L 41/0627	H04L 12/24
H04L 41/0631	H04L 12/24
H04L 41/0636	H04L 12/24
H04L 41/064	H04L 12/24
H04L 41/0645	H04L 12/24
H04L 41/065	H04L 12/24
H04L 41/0654	H04L 12/24
H04L 41/0659	H04L 12/24
H04L 41/0663	H04L 12/24
H04L 41/0668	H04L 12/24
H04L 41/0672	H04L 12/24
H04L 41/0677	H04L 12/24
H04L 41/0681	H04L 12/24
H04L 41/0686	H04L 12/24
H04L 41/069	H04L 12/24

CPC Group	IPC Group
H04L 41/0695	H04L 12/24
H04L 41/08	H04L 12/24
H04L 41/0803	H04L 12/24
H04L 41/0806	H04L 12/24
H04L 41/0809	H04L 12/24
H04L 41/0813	H04L 12/24
H04L 41/0816	H04L 12/24
H04L 41/082	H04L 12/24
H04L 41/0823	H04L 12/24
H04L 41/0826	H04L 12/24
H04L 41/083	H04L 12/24
H04L 41/0833	H04L 12/24
H04L 41/0836	H04L 12/24
H04L 41/084	H04L 12/24
H04L 41/0843	H04L 12/24
H04L 41/0846	H04L 12/24
H04L 41/085	H04L 12/24
H04L 41/0853	H04L 12/24
H04L 41/0856	H04L 12/24
H04L 41/0859	H04L 12/24
H04L 41/0863	H04L 12/24
H04L 41/0866	H04L 12/24
H04L 41/0869	H04L 12/24
H04L 41/0873	H04L 12/24

CPC Group	IPC Group
H04L 41/0876	H04L 12/24
H04L 41/0879	H04L 12/24
H04L 41/0883	H04L 12/24
H04L 41/0886	H04L 12/24
H04L 41/0889	H04L 12/24
H04L 41/0893	H04L 12/24
H04L 41/0896	H04L 12/24
H04L 41/12	H04L 12/24
H04L 41/14	H04L 12/24
H04L 41/142	H04L 12/24
H04L 41/145	H04L 12/24
H04L 41/147	H04L 12/24
H04L 41/16	H04L 12/24
H04L 41/18	H04L 12/24
H04L 41/20	H04L 12/24
H04L 41/22	H04L 12/24
H04L 41/24	H04L 12/24
H04L 41/26	H04L 12/24
H04L 41/28	H04L 12/24
H04L 41/30	H04L 12/24
H04L 41/32	H04L 12/24
H04L 41/50	H04L 12/24
H04L 41/5003	H04L 12/24
H04L 41/5006	H04L 12/24



CPC Group	IPC Group
H04L 41/5009	H04L 12/24
H04L 41/5012	H04L 12/24
H04L 41/5016	H04L 12/24
H04L 41/5019	H04L 12/24
H04L 41/5022	H04L 12/24
H04L 41/5025	H04L 12/24
H04L 41/5029	H04L 12/24
H04L 41/5032	H04L 12/24
H04L 41/5035	H04L 12/24
H04L 41/5038	H04L 12/24
H04L 41/5041	H04L 12/24
H04L 41/5045	H04L 12/24
H04L 41/5048	H04L 12/24
H04L 41/5051	H04L 12/24
H04L 41/5054	H04L 12/24
H04L 41/5058	H04L 12/24
H04L 41/5061	H04L 12/24
H04L 41/5064	H04L 12/24
H04L 41/5067	H04L 12/24
H04L 41/507	H04L 12/24
H04L 41/5074	H04L 12/24
H04L 41/5077	H04L 12/24
H04L 41/508	H04L 12/24
H04L 41/5083	H04L 12/24

CPC Group	IPC Group
H04L 41/5087	H04L 12/24
H04L 41/509	H04L 12/24
H04L 41/5093	H04L 12/24
H04L 41/5096	H04L 12/24
H04L 43/00	H04L 12/26
H04L 43/02	H04L 12/26
H04L 43/022	H04L 12/26
H04L 43/024	H04L 12/26
H04L 43/026	H04L 12/26
H04L 43/028	H04L 12/26
H04L 43/04	H04L 12/26
H04L 43/045	H04L 12/26
H04L 43/06	H04L 12/26
H04L 43/062	H04L 12/26
H04L 43/065	H04L 12/26
H04L 43/067	H04L 12/26
H04L 43/08	H04L 12/26
H04L 43/0805	H04L 12/26
H04L 43/0811	H04L 12/26
H04L 43/0817	H04L 12/26
H04L 43/0823	H04L 12/26
H04L 43/0829	H04L 12/26
H04L 43/0835	H04L 12/26
H04L 43/0841	H04L 12/26

CPC Group	IPC Group
H04L 43/0847	H04L 12/26
H04L 43/0852	H04L 12/26
H04L 43/0858	H04L 12/26
H04L 43/0864	H04L 12/26
H04L 43/087	H04L 12/26
H04L 43/0876	H04L 12/26
H04L 43/0882	H04L 12/26
H04L 43/0888	H04L 12/26
H04L 43/0894	H04L 12/26
H04L 43/10	H04L 12/26
H04L 43/103	H04L 12/26
H04L 43/106	H04L 12/26
H04L 43/12	H04L 12/26
H04L 43/14	H04L 12/26
H04L 43/16	H04L 12/26
H04L 43/18	H04L 12/26
H04L 43/50	H04L 12/26
H04L 45/00	H04L 12/701
H04L 45/02	H04L 12/751
H04L 45/021	H04L 12/755
H04L 45/023	H04L 12/757
H04L 45/025	H04L 12/751
H04L 45/026	H04L 12/751
H04L 45/028	H04L 12/759

CPC Group	IPC Group
H04L 45/04	H04L 12/715
H04L 45/06	H04L 12/721
H04L 45/08	H04L 12/751
H04L 45/10	H04L 12/751
H04L 45/12	H04L 12/721
H04L 45/121	H04L 12/727
H04L 45/122	H04L 12/733
H04L 45/123	H04L 12/721
H04L 45/124	H04L 12/721
H04L 45/125	H04L 12/729
H04L 45/126	H04L 12/733
H04L 45/127	H04L 12/721
H04L 45/128	H04L 12/735
H04L 45/1283	H04L 12/735
H04L 45/1287	H04L 12/735
H04L 45/14	H04L 12/721
H04L 45/16	H04L 12/761
H04L 45/18	H04L 12/705
H04L 45/20	H04L 12/733
H04L 45/22	H04L 12/707
H04L 45/24	H04L 12/707
H04L 45/245	H04L 12/709
H04L 45/26	H04L 12/721
H04L 45/28	H04L 12/703

CPC Group	IPC Group
H04L 45/30	H04L 12/725
H04L 45/302	H04L 12/725
H04L 45/304	H04L 12/725
H04L 45/306	H04L 12/725
H04L 45/3065	H04L 12/725
H04L 45/308	H04L 12/725
H04L 45/32	H04L 12/721
H04L 45/34	H04L 12/721
H04L 45/36	H04L 12/721
H04L 45/38	H04L 12/721
H04L 45/40	H04L 12/721
H04L 45/42	H04L 12/717
H04L 45/44	H04L 12/721
H04L 45/46	H04L 12/715
H04L 45/48	H04L 12/753
H04L 45/50	H04L 12/723
H04L 45/502	H04L 12/723
H04L 45/505	H04L 12/723
H04L 45/507	H04L 12/723
H04L 45/52	H04L 12/781
H04L 45/54	H04L 12/741
H04L 45/56	H04L 12/771
H04L 45/563	H04L 12/771
H04L 45/566	H04L 12/721

CPC Group	IPC Group
H04L 45/58	H04L 12/775
H04L 45/583	H04L 12/775
H04L 45/586	H04L 12/713
H04L 45/60	H04L 12/773
H04L 45/62	H04L 12/721
H04L 45/64	H04L 12/715
H04L 45/66	H04L 12/721
H04L 45/68	H04L 12/721
H04L 45/70	H04L 12/721
H04L 45/72	H04L 12/721
H04L 45/74	H04L 12/741
H04L 45/741	H04L 12/749
H04L 45/742	H04L 12/747
H04L 45/745	H04L 12/741
H04L 45/7453	H04L 12/743
H04L 45/7457	H04L 12/743
H04L 45/748	H04L 12/745
H04L 47/00	H04L 12/70
H04L 47/10	H04L 12/801
H04L 47/11	H04L 12/801
H04L 47/115	H04L 12/801
H04L 47/12	H04L 12/801
H04L 47/122	H04L 12/803
H04L 47/125	H04L 12/803

CPC Group	IPC Group
H04L 47/127	H04L 12/801
H04L 47/13	H04L 12/801
H04L 47/135	H04L 12/801
H04L 47/14	H04L 12/801
H04L 47/15	H04L 12/801
H04L 47/16	H04L 12/801
H04L 47/17	H04L 12/801
H04L 47/18	H04L 12/801
H04L 47/19	H04L 12/801
H04L 47/193	H04L 12/801
H04L 47/196	H04L 12/801
H04L 47/20	H04L 12/813
H04L 47/21	H04L 12/819
H04L 47/215	H04L 12/819
H04L 47/22	H04L 12/815
H04L 47/225	H04L 12/815
H04L 47/23	H04L 12/815
H04L 47/24	H04L 12/851
H04L 47/2408	H04L 12/851
H04L 47/2416	H04L 12/853
H04L 47/2425	H04L 12/851
H04L 47/2433	H04L 12/851
H04L 47/2441	H04L 12/851
H04L 47/245	H04L 12/851

CPC Group	IPC Group
H04L 47/2458	H04L 12/833
H04L 47/2466	H04L 12/855
H04L 47/2475	H04L 12/859
H04L 47/2483	H04L 12/851
H04L 47/2491	H04L 12/857
H04L 47/25	H04L 12/825
H04L 47/26	H04L 12/825
H04L 47/263	H04L 12/825
H04L 47/266	H04L 12/825
H04L 47/27	H04L 12/807
H04L 47/28	H04L 12/841
H04L 47/283	H04L 12/841
H04L 47/286	H04L 12/841
H04L 47/29	H04L 12/801
H04L 47/30	H04L 12/835
H04L 47/31	H04L 12/833
H04L 47/32	H04L 12/823
H04L 47/323	H04L 12/823
H04L 47/326	H04L 12/823
H04L 47/33	H04L 12/801
H04L 47/34	H04L 12/801
H04L 47/35	H04L 12/801
H04L 47/36	H04L 12/805
H04L 47/365	H04L 12/805



CPC Group	IPC Group
H04L 47/37	H04L 12/801
H04L 47/38	H04L 12/811
H04L 47/39	H04L 12/801
H04L 47/40	H04L 12/893
H04L 47/41	H04L 12/891
H04L 47/50	H04L 12/863
H04L 47/52	H04L 12/873
H04L 47/521	H04L 12/873
H04L 47/522	H04L 12/873
H04L 47/524	H04L 12/873
H04L 47/525	H04L 12/877
H04L 47/527	H04L 12/873
H04L 47/528	H04L 12/873
H04L 47/54	H04L 12/863
H04L 47/56	H04L 12/875
H04L 47/562	H04L 12/875
H04L 47/564	H04L 12/875
H04L 47/566	H04L 12/875
H04L 47/568	H04L 12/875
H04L 47/58	H04L 12/869
H04L 47/60	H04L 12/869
H04L 47/62	H04L 12/863
H04L 47/6205	H04L 12/863
H04L 47/621	H04L 12/863

CPC Group	IPC Group
H04L 47/6215	H04L 12/863
H04L 47/622	H04L 12/863
H04L 47/6225	H04L 12/863
H04L 47/623	H04L 12/863
H04L 47/6235	H04L 12/863
H04L 47/624	H04L 12/863
H04L 47/6245	H04L 12/863
H04L 47/625	H04L 12/863
H04L 47/6255	H04L 12/863
H04L 47/626	H04L 12/863
H04L 47/6265	H04L 12/863
H04L 47/627	H04L 12/863
H04L 47/6275	H04L 12/865
H04L 47/628	H04L 12/863
H04L 47/6285	H04L 12/863
H04L 47/629	H04L 12/867
H04L 47/6295	H04L 12/863
H04L 47/70	H04L 12/911
H04L 47/72	H04L 12/911
H04L 47/722	H04L 12/925
H04L 47/724	H04L 12/913
H04L 47/726	H04L 12/911
H04L 47/728	H04L 12/911
H04L 47/74	H04L 12/911

CPC Group	IPC Group
H04L 47/741	H04L 12/911
H04L 47/743	H04L 12/911
H04L 47/745	H04L 12/911
H04L 47/746	H04L 12/911
H04L 47/748	H04L 12/911
H04L 47/76	H04L 12/917
H04L 47/762	H04L 12/923
H04L 47/765	H04L 12/919
H04L 47/767	H04L 12/919
H04L 47/78	H04L 12/911
H04L 47/781	H04L 12/911
H04L 47/782	H04L 12/911
H04L 47/783	H04L 12/911
H04L 47/785	H04L 12/915
H04L 47/786	H04L 12/915
H04L 47/787	H04L 12/915
H04L 47/788	H04L 12/911
H04L 47/80	H04L 12/927
H04L 47/801	H04L 12/927
H04L 47/803	H04L 12/927
H04L 47/805	H04L 12/927
H04L 47/806	H04L 12/927
H04L 47/808	H04L 12/927
H04L 47/82	H04L 12/911

CPC Group	IPC Group
H04L 47/821	H04L 12/911
H04L 47/822	H04L 12/911
H04L 47/823	H04L 12/911
H04L 47/824	H04L 12/911
H04L 47/825	H04L 12/911
H04L 47/826	H04L 12/911
H04L 47/827	H04L 12/911
H04L 47/828	H04L 12/911
H04L 47/829	H04L 12/911
H04L 49/00	H04L 12/931
H04L 49/10	H04L 12/933
H04L 49/101	H04L 12/933
H04L 49/102	H04L 12/933
H04L 49/103	H04L 12/933
H04L 49/104	H04L 12/933
H04L 49/105	H04L 12/933
H04L 49/106	H04L 12/933
H04L 49/107	H04L 12/933
H04L 49/108	H04L 12/933
H04L 49/109	H04L 12/933
H04L 49/15	H04L 12/933
H04L 49/1507	H04L 12/933
H04L 49/1515	H04L 12/933
H04L 49/1523	H04L 12/933

CPC Group	IPC Group
H04L 49/153	H04L 12/933
H04L 49/1538	H04L 12/933
H04L 49/1546	H04L 12/933
H04L 49/1553	H04L 12/933
H04L 49/1561	H04L 12/933
H04L 49/1569	H04L 12/933
H04L 49/1576	H04L 12/933
H04L 49/1584	H04L 12/933
H04L 49/1592	H04L 12/933
H04L 49/20	H04L 12/931
H04L 49/201	H04L 12/931
H04L 49/203	H04L 12/931
H04L 49/205	H04L 12/931
H04L 49/206	H04L 12/931
H04L 49/208	H04L 12/931
H04L 49/25	H04L 12/947
H04L 49/251	H04L 12/947
H04L 49/252	H04L 12/947
H04L 49/253	H04L 12/937
H04L 49/254	H04L 12/937
H04L 49/255	H04L 12/937
H04L 49/256	H04L 12/947
H04L 49/257	H04L 12/947
H04L 49/258	H04L 12/947

CPC Group	IPC Group
H04L 49/30	H04L 12/935
H04L 49/3009	H04L 12/935
H04L 49/3018	H04L 12/935
H04L 49/3027	H04L 12/935
H04L 49/3036	H04L 12/935
H04L 49/3045	H04L 12/935
H04L 49/3054	H04L 12/935
H04L 49/3063	H04L 12/935
H04L 49/3072	H04L 12/935
H04L 49/3081	H04L 12/935
H04L 49/309	H04L 12/935
H04L 49/35	H04L 12/931
H04L 49/351	H04L 12/931
H04L 49/352	H04L 12/931
H04L 49/353	H04L 12/931
H04L 49/354	H04L 12/931
H04L 49/355	H04L 12/931
H04L 49/356	H04L 12/931
H04L 49/357	H04L 12/931
H04L 49/358	H04L 12/931
H04L 49/40	H04L 12/931
H04L 49/405	H04L 12/931
H04L 49/45	H04L 12/931
H04L 49/455	H04L 12/931

CPC Group	IPC Group
H04L 49/50	H04L 12/931
H04L 49/501	H04L 12/931
H04L 49/503	H04L 12/931
H04L 49/505	H04L 12/931
H04L 49/506	H04L 12/931
H04L 49/508	H04L 12/931
H04L 49/55	H04L 12/939
H04L 49/552	H04L 12/939
H04L 49/555	H04L 12/939
H04L 49/557	H04L 12/939
H04L 49/60	H04L 12/931
H04L 49/602	H04L 12/931
H04L 49/604	H04L 12/931
H04L 49/606	H04L 12/931
H04L 49/608	H04L 12/931
H04L 49/65	H04L 12/931
H04L 49/70	H04L 12/931
H04L 49/90	H04L 12/861
H04L 49/9005	H04L 12/861
H04L 49/901	H04L 12/879
H04L 49/9015	H04L 12/883
H04L 49/9021	H04L 12/883
H04L 49/9026	H04L 12/879
H04L 49/9031	H04L 12/861

CPC Group	IPC Group
H04L 49/9036	H04L 12/861
H04L 49/9042	H04L 12/861
H04L 49/9047	H04L 12/861
H04L 49/9052	H04L 12/861
H04L 49/9057	H04L 12/861
H04L 49/9063	H04L 12/861
H04L 49/9068	H04L 12/861
H04L 49/9073	H04L 12/861
H04L 49/9078	H04L 12/861
H04L 49/9084	H04L 12/861
H04L 49/9089	H04L 12/861
H04L 49/9094	H04L 12/861
H04L 51/00	H04L 12/58
H04L 51/02	H04L 12/58
H04L 51/04	H04L 12/58
H04L 51/043	H04L 12/58
H04L 51/046	H04L 12/58
H04L 51/06	H04L 12/58
H04L 51/063	H04L 12/58
H04L 51/066	H04L 12/58
H04L 51/08	H04L 12/58
H04L 51/10	H04L 12/58
H04L 51/12	H04L 12/58
H04L 51/14	H04L 12/58



CPC Group	IPC Group
H04L 51/16	H04L 12/58
H04L 51/18	H04L 12/58
H04L 51/20	H04L 12/58
H04L 51/22	H04L 12/58
H04L 51/24	H04L 12/58
H04L 51/26	H04L 12/58
H04L 51/28	H04L 12/58
H04L 51/30	H04L 12/58
H04L 51/32	H04L 12/58
H04L 51/34	H04L 12/58
H04L 51/36	H04L 12/58
H04L 51/38	H04L 12/58
H04L 61/00	H04L 29/12
H04L 61/10	H04L 29/12
H04L 61/103	H04L 29/12
H04L 61/106	H04L 29/12
H04L 61/15	H04L 29/12
H04L 61/1505	H04L 29/12
H04L 61/1511	H04L 29/12
H04L 61/1517	H04L 29/12
H04L 61/1523	H04L 29/12
H04L 61/1529	H04L 29/12
H04L 61/1535	H04L 29/12
H04L 61/1541	H04L 29/12

CPC Group	IPC Group
H04L 61/1547	H04L 29/12
H04L 61/1552	H04L 29/12
H04L 61/1558	H04L 29/12
H04L 61/1564	H04L 29/12
H04L 61/157	H04L 29/12
H04L 61/1576	H04L 29/12
H04L 61/1582	H04L 29/12
H04L 61/1588	H04L 29/12
H04L 61/1594	H04L 29/12
H04L 61/20	H04L 29/12
H04L 61/2007	H04L 29/12
H04L 61/2015	H04L 29/12
H04L 61/2023	H04L 29/12
H04L 61/203	H04L 29/12
H04L 61/2038	H04L 29/12
H04L 61/2046	H04L 29/12
H04L 61/2053	H04L 29/12
H04L 61/2061	H04L 29/12
H04L 61/2069	H04L 29/12
H04L 61/2076	H04L 29/12
H04L 61/2084	H04L 29/12
H04L 61/2092	H04L 29/12
H04L 61/25	H04L 29/12
H04L 61/2503	H04L 29/12

CPC Group	IPC Group
H04L 61/2507	H04L 29/12
H04L 61/251	H04L 29/12
H04L 61/2514	H04L 29/12
H04L 61/2517	H04L 29/12
H04L 61/2521	H04L 29/12
H04L 61/2525	H04L 29/12
H04L 61/2528	H04L 29/12
H04L 61/2532	H04L 29/12
H04L 61/2535	H04L 29/12
H04L 61/2539	H04L 29/12
H04L 61/2542	H04L 29/12
H04L 61/2546	H04L 29/12
H04L 61/255	H04L 29/12
H04L 61/2553	H04L 29/12
H04L 61/2557	H04L 29/12
H04L 61/256	H04L 29/12
H04L 61/2564	H04L 29/12
H04L 61/2567	H04L 29/12
H04L 61/2571	H04L 29/12
H04L 61/2575	H04L 29/12
H04L 61/2578	H04L 29/12
H04L 61/2582	H04L 29/12
H04L 61/2585	H04L 29/12
H04L 61/2589	H04L 29/12

CPC Group	IPC Group
H04L 61/2592	H04L 29/12
H04L 61/2596	H04L 29/12
H04L 61/30	H04L 29/12
H04L 61/3005	H04L 29/12
H04L 61/301	H04L 29/12
H04L 61/3015	H04L 29/12
H04L 61/302	H04L 29/12
H04L 61/3025	H04L 29/12
H04L 61/303	H04L 29/12
H04L 61/3035	H04L 29/12
H04L 61/304	H04L 29/12
H04L 61/3045	H04L 29/12
H04L 61/305	H04L 29/12
H04L 61/3055	H04L 29/12
H04L 61/306	H04L 29/12
H04L 61/3065	H04L 29/12
H04L 61/307	H04L 29/12
H04L 61/3075	H04L 29/12
H04L 61/308	H04L 29/12
H04L 61/3085	H04L 29/12
H04L 61/309	H04L 29/12
H04L 61/3095	H04L 29/12
H04L 61/35	H04L 29/12
H04L 61/60	H04L 29/12

CPC Group	IPC Group
H04L 61/6004	H04L 29/12
H04L 61/6009	H04L 29/12
H04L 61/6013	H04L 29/12
H04L 61/6018	H04L 29/12
H04L 61/6022	H04L 29/12
H04L 61/6027	H04L 29/12
H04L 61/6031	H04L 29/12
H04L 61/6036	H04L 29/12
H04L 61/604	H04L 29/12
H04L 61/6045	H04L 29/12
H04L 61/605	H04L 29/12
H04L 61/6054	H04L 29/12
H04L 61/6059	H04L 29/12
H04L 61/6063	H04L 29/12
H04L 61/6068	H04L 29/12
H04L 61/6072	H04L 29/12
H04L 61/6077	H04L 29/12
H04L 61/6081	H04L 29/12
H04L 61/6086	H04L 29/12
H04L 61/609	H04L 29/12
H04L 61/6095	H04L 29/12
H04L 63/00	H04L 29/06
H04L 63/02	H04L 29/06
H04L 63/0209	H04L 29/06

CPC Group	IPC Group
H04L 63/0218	H04L 29/06
H04L 63/0227	H04L 29/06
H04L 63/0236	H04L 29/06
H04L 63/0245	H04L 29/06
H04L 63/0254	H04L 29/06
H04L 63/0263	H04L 29/06
H04L 63/0272	H04L 29/06
H04L 63/0281	H04L 29/06
H04L 63/029	H04L 29/06
H04L 63/04	H04L 29/06
H04L 63/0407	H04L 29/06
H04L 63/0414	H04L 29/06
H04L 63/0421	H04L 29/06
H04L 63/0428	H04L 29/06
H04L 63/0435	H04L 29/06
H04L 63/0442	H04L 29/06
H04L 63/045	H04L 29/06
H04L 63/0457	H04L 29/06
H04L 63/0464	H04L 29/06
H04L 63/0471	H04L 29/06
H04L 63/0478	H04L 29/06
H04L 63/0485	H04L 29/06
H04L 63/0492	H04L 29/06
H04L 63/06	H04L 29/06

CPC Group	IPC Group
H04L 63/061	H04L 29/06
H04L 63/062	H04L 29/06
H04L 63/064	H04L 29/06
H04L 63/065	H04L 29/06
H04L 63/067	H04L 29/06
H04L 63/068	H04L 29/06
H04L 63/08	H04L 29/06
H04L 63/0807	H04L 29/06
H04L 63/0815	H04L 29/06
H04L 63/0823	H04L 29/06
H04L 63/083	H04L 29/06
H04L 63/0838	H04L 29/06
H04L 63/0846	H04L 29/06
H04L 63/0853	H04L 29/06
H04L 63/0861	H04L 29/06
H04L 63/0869	H04L 29/06
H04L 63/0876	H04L 29/06
H04L 63/0884	H04L 29/06
H04L 63/0892	H04L 29/06
H04L 63/10	H04L 29/06
H04L 63/101	H04L 29/06
H04L 63/102	H04L 29/06
H04L 63/104	H04L 29/06
H04L 63/105	H04L 29/06

CPC Group	IPC Group
H04L 63/107	H04L 29/06
H04L 63/108	H04L 29/06
H04L 63/12	H04L 29/06
H04L 63/123	H04L 29/06
H04L 63/126	H04L 29/06
H04L 63/14	H04L 29/06
H04L 63/1408	H04L 29/06
H04L 63/1416	H04L 29/06
H04L 63/1425	H04L 29/06
H04L 63/1433	H04L 29/06
H04L 63/1441	H04L 29/06
H04L 63/145	H04L 29/06
H04L 63/1458	H04L 29/06
H04L 63/1466	H04L 29/06
H04L 63/1475	H04L 29/06
H04L 63/1483	H04L 29/06
H04L 63/1491	H04L 29/06
H04L 63/16	H04L 29/06
H04L 63/162	H04L 29/06
H04L 63/164	H04L 29/06
H04L 63/166	H04L 29/06
H04L 63/168	H04L 29/06
H04L 63/18	H04L 29/06
H04L 63/20	H04L 29/06



CPC Group	IPC Group
H04L 63/205	H04L 29/06
H04L 63/30	H04L 29/06
H04L 63/302	H04L 29/06
H04L 63/304	H04L 29/06
H04L 63/306	H04L 29/06
H04L 63/308	H04L 29/06
H04L 65/00	H04L 29/06
H04L 65/10	H04L 29/06
H04L 65/1003	H04L 29/06
H04L 65/1006	H04L 29/06
H04L 65/1009	H04L 29/06
H04L 65/1013	H04L 29/06
H04L 65/1016	H04L 29/06
H04L 65/102	H04L 29/06
H04L 65/1023	H04L 29/06
H04L 65/1026	H04L 29/06
H04L 65/103	H04L 29/06
H04L 65/1033	H04L 29/06
H04L 65/1036	H04L 29/06
H04L 65/104	H04L 29/06
H04L 65/1043	H04L 29/06
H04L 65/1046	H04L 29/06
H04L 65/105	H04L 29/06
H04L 65/1053	H04L 29/06

CPC Group	IPC Group
H04L 65/1056	H04L 29/06
H04L 65/1059	H04L 29/06
H04L 65/1063	H04L 29/06
H04L 65/1066	H04L 29/06
H04L 65/1069	H04L 29/06
H04L 65/1073	H04L 29/06
H04L 65/1076	H04L 29/06
H04L 65/1079	H04L 29/06
H04L 65/1083	H04L 29/06
H04L 65/1086	H04L 29/06
H04L 65/1089	H04L 29/06
H04L 65/1093	H04L 29/06
H04L 65/1096	H04L 29/06
H04L 65/40	H04L 29/06
H04L 65/4007	H04L 29/06
H04L 65/4015	H04L 29/06
H04L 65/4023	H04L 29/06
H04L 65/403	H04L 29/06
H04L 65/4038	H04L 29/06
H04L 65/4046	H04L 29/06
H04L 65/4053	H04L 29/06
H04L 65/4061	H04L 29/06
H04L 65/4069	H04L 29/06
H04L 65/4076	H04L 29/06

CPC Group	IPC Group
H04L 65/4084	H04L 29/06
H04L 65/4092	H04L 29/06
H04L 65/60	H04L 29/06
H04L 65/601	H04L 29/06
H04L 65/602	H04L 29/06
H04L 65/604	H04L 29/06
H04L 65/605	H04L 29/06
H04L 65/607	H04L 29/06
H04L 65/608	H04L 29/06
H04L 65/80	H04L 29/06
H04L 67/00	H04L 29/08
H04L 67/02	H04L 29/08
H04L 67/025	H04L 29/08
H04L 67/04	H04L 29/08
H04L 67/06	H04L 29/08
H04L 67/08	H04L 29/08
H04L 67/10	H04L 29/08
H04L 67/1002	H04L 29/08
H04L 67/1004	H04L 29/08
H04L 67/1006	H04L 29/08
H04L 67/1008	H04L 29/08
H04L 67/101	H04L 29/08
H04L 67/1012	H04L 29/08
H04L 67/1014	H04L 29/08

CPC Group	IPC Group
H04L 67/1017	H04L 29/08
H04L 67/1019	H04L 29/08
H04L 67/1021	H04L 29/08
H04L 67/1023	H04L 29/08
H04L 67/1025	H04L 29/08
H04L 67/1027	H04L 29/08
H04L 67/1029	H04L 29/08
H04L 67/1031	H04L 29/08
H04L 67/1034	H04L 29/08
H04L 67/1036	H04L 29/08
H04L 67/1038	H04L 29/08
H04L 67/104	H04L 29/08
H04L 67/1042	H04L 29/08
H04L 67/1044	H04L 29/08
H04L 67/1046	H04L 29/08
H04L 67/1048	H04L 29/08
H04L 67/1051	H04L 29/08
H04L 67/1053	H04L 29/08
H04L 67/1055	H04L 29/08
H04L 67/1057	H04L 29/08
H04L 67/1059	H04L 29/08
H04L 67/1061	H04L 29/08
H04L 67/1063	H04L 29/08
H04L 67/1065	H04L 29/08

CPC Group	IPC Group
H04L 67/1068	H04L 29/08
H04L 67/107	H04L 29/08
H04L 67/1072	H04L 29/08
H04L 67/1074	H04L 29/08
H04L 67/1076	H04L 29/08
H04L 67/1078	H04L 29/08
H04L 67/108	H04L 29/08
H04L 67/1082	H04L 29/08
H04L 67/1085	H04L 29/08
H04L 67/1087	H04L 29/08
H04L 67/1089	H04L 29/08
H04L 67/1091	H04L 29/08
H04L 67/1093	H04L 29/08
H04L 67/1095	H04L 29/08
H04L 67/1097	H04L 29/08
H04L 67/12	H04L 29/08
H04L 67/125	H04L 29/08
H04L 67/14	H04L 29/08
H04L 67/141	H04L 29/08
H04L 67/142	H04L 29/08
H04L 67/143	H04L 29/08
H04L 67/145	H04L 29/08
H04L 67/146	H04L 29/08
H04L 67/147	H04L 29/08

CPC Group	IPC Group
H04L 67/148	H04L 29/08
H04L 67/16	H04L 29/08
H04L 67/18	H04L 29/08
H04L 67/20	H04L 29/08
H04L 67/22	H04L 29/08
H04L 67/24	H04L 29/08
H04L 67/26	H04L 29/08
H04L 67/28	H04L 29/08
H04L 67/2804	H04L 29/08
H04L 67/2809	H04L 29/08
H04L 67/2814	H04L 29/08
H04L 67/2819	H04L 29/08
H04L 67/2823	H04L 29/08
H04L 67/2828	H04L 29/08
H04L 67/2833	H04L 29/08
H04L 67/2838	H04L 29/08
H04L 67/2842	H04L 29/08
H04L 67/2847	H04L 29/08
H04L 67/2852	H04L 29/08
H04L 67/2857	H04L 29/08
H04L 67/2861	H04L 29/08
H04L 67/2866	H04L 29/08
H04L 67/2871	H04L 29/08
H04L 67/2876	H04L 29/08

CPC Group	IPC Group
H04L 67/288	H04L 29/08
H04L 67/2885	H04L 29/08
H04L 67/289	H04L 29/08
H04L 67/2895	H04L 29/08
H04L 67/30	H04L 29/08
H04L 67/303	H04L 29/08
H04L 67/306	H04L 29/08
H04L 67/32	H04L 29/08
H04L 67/322	H04L 29/08
H04L 67/325	H04L 29/08
H04L 67/327	H04L 29/08
H04L 67/34	H04L 29/08
H04L 67/36	H04L 29/08
H04L 67/38	H04L 29/06
H04L 67/40	H04L 29/06
H04L 67/42	H04L 29/06
H04L 69/00	H04L 29/06
H04L 69/02	H04L 29/06
H04L 69/03	H04L 29/06
H04L 69/04	H04L 29/06
H04L 69/06	H04L 29/06
H04L 69/08	H04L 29/06
H04L 69/10	H04L 29/06
H04L 69/12	H04L 29/06

CPC Group	IPC Group
H04L 69/14	H04L 29/06
H04L 69/16	H04L 29/06
H04L 69/161	H04L 29/06
H04L 69/162	H04L 29/06
H04L 69/163	H04L 29/06
H04L 69/164	H04L 29/06
H04L 69/165	H04L 29/06
H04L 69/166	H04L 29/06
H04L 69/167	H04L 29/06
H04L 69/168	H04L 29/06
H04L 69/169	H04L 29/06
H04L 69/18	H04L 29/06
H04L 69/22	H04L 29/06
H04L 69/24	H04L 29/06
H04L 69/26	H04L 29/06
H04L 69/28	H04L 29/06
H04L 69/30	H04L 29/08
H04L 69/32	H04L 29/08
H04L 69/321	H04L 29/08
H04L 69/322	H04L 29/08
H04L 69/323	H04L 29/08
H04L 69/324	H04L 29/08
H04L 69/325	H04L 29/08
H04L 69/326	H04L 29/08



CPC Group	IPC Group
H04L 69/327	H04L 29/08
H04L 69/328	H04L 29/08
H04L 69/329	H04L 29/08
H04L 69/40	H04L 29/14
H04L 2201/00	—
H04L 2201/02	—
H04L 2201/04	—
H04L 2201/06	—
H04L 2201/08	—
H04L 2203/00	—
H04L 2203/02	—
H04L 2203/04	—
H04L 2209/00	—
H04L 2209/04	—
H04L 2209/043	—
H04L 2209/046	—
H04L 2209/08	—
H04L 2209/12	—
H04L 2209/122	—
H04L 2209/125	—
H04L 2209/127	—
H04L 2209/16	—
H04L 2209/20	—
H04L 2209/24	—

CPC Group	IPC Group
H04L 2209/26	—
H04L 2209/30	—
H04L 2209/34	—
H04L 2209/38	—
H04L 2209/42	—
H04L 2209/46	—
H04L 2209/463	—
H04L 2209/466	—
H04L 2209/50	—
H04L 2209/56	—
H04L 2209/60	—
H04L 2209/601	—
H04L 2209/603	—
H04L 2209/605	—
H04L 2209/606	—
H04L 2209/608	—
H04L 2209/64	—
H04L 2209/68	—
H04L 2209/72	—
H04L 2209/76	—
H04L 2209/80	—
H04L 2209/805	—
H04L 2209/84	—
H04L 2209/88	—

CPC Group	IPC Group
H04L 2212/00	—
H04L 2463/00	—
H04L 2463/041	—
H04L 2463/061	—
H04L 2463/062	—
H04L 2463/081	—
H04L 2463/082	—
H04L 2463/101	—
H04L 2463/102	—
H04L 2463/103	—
H04L 2463/121	—
H04L 2463/141	—
H04L 2463/142	—
H04L 2463/143	—
H04L 2463/144	—
H04L 2463/145	—
H04L 2463/146	—