

**CONCORDANCE - United States to International Patent Classification**

U.S. Subclass	IPC Subclass	IPC Notation	U.S. Subclass	IPC Subclass	IPC Notation	U.S. Subclass	IPC Subclass	IPC Notation	U.S. Subclass	IPC Subclass	IPC Notation	U.S. Subclass	IPC Subclass	IPC Notation
<b>U.S. CLASS 172--Con.</b>														
557-605	A 01 B	15 / 16		B 25 D			H 02 G	1 / 02	26G	H 01 B	9 / 06		H 02 G	3 / 06
	A 01 B	23 / 06		E 02 D			H 02 G	7 / 00	26R	H 01 B	11 / 00	72R	H 01 R	4 / 00
557	A 01 B	21 / 00		E 21 B			H 01 B	3 / 06		H 01 B	7 / 00		H 01 R	4 / 50
	A 01 B	35 / 16		E 21 C		55B	A 43 B	7 / 36		H 01 B	9 / 00		H 02 G	15 / 08
	A 01 B	35 / 28	20	B 25 B	23 / 145	6-7	H 01 R	4 / 66	27	H 01 B	11 / 00	72TR	H 01 B	7 / 08
	A 01 B	39 / 08	21	E 21 B	45 / 00	8	H 01 B	3 / 20		H 01 B	11 / 02	73.1	H 02 G	15 / 00
	A 01 B	5 / 00	24-28	E 21 B	7 / 02		H 01 B	9 / 06		H 01 B	7 / 00	74A	H 02 G	15 / 02
	A 01 B	7 / 00	29	B 21 J			H 02 G	15 / 20		H 01 B	9 / 00	74R	H 01 R	9 / 05
567-601	A 01 B	21 / 00		B 23 Q		9F	H 01 B	1 / 00	28-29	H 01 B	11 / 00		H 02 G	15 / 013
	A 01 B	35 / 16		B 25 B	13 / 46		H 01 B	7 / 00		H 01 B	11 / 18		H 02 G	15 / 04
	A 01 B	35 / 28		B 25 D		9R	H 01 B	1 / 00		H 01 B	7 / 00	75B	H 02 G	15 / 02
	A 01 B	39 / 08		E 02 D			H 01 B	17 / 36		H 01 B	9 / 00	75C	H 01 R	9 / 05
	A 01 B	5 / 00		E 21 B			H 02 G		30	H 01 B	17 / 34		H 02 G	15 / 02
	A 01 B	7 / 00		E 21 C		10	H 01 B			H 01 B	17 / 36	75D-75F	H 02 G	15 / 02
602-605	A 01 B	59 / 00	30	B 25 D	17 / 00		H 02 G	15 / 26	31R	H 01 B	17 / 26	75R	H 02 G	15 / 02
606-610	A 01 B	19 / 10	31-37	E 21 B	19 / 00		H 02 G			H 01 B	17 / 28		H 02 G	15 / 08
606-611	A 01 B	15 / 00	38-45	E 21 B	15 / 04	11BH	H 01 B	7 / 32		H 01 B	17 / 30	76	H 02 G	15 / 02
	A 01 B	23 / 00	46-47	B 21 J			H 02 G	15 / 20	31S	H 01 B	17 / 26		H 02 G	15 / 08
	A 01 B	35 / 20		B 23 Q		11R	G 01 M	3 / 28		H 01 T	13 / 00		H 02 G	3 / 02
	A 01 B	39 / 20		B 25 D			H 01 F	27 / 14	31.5	H 01 B	17 / 26			15 / 02
612-662	A 01 B	35 / 00		E 02 D			H 02 G	15 / 26	32	H 05 K	9 / 00			15 / 08
613-662	A 01 B	19 / 00		E 21 B		12BH	H 01 B	7 / 17	33-34	H 01 B	11 / 02	84C	H 01 R	4 / 00
	A 01 B	23 / 00		E 21 C		12R	H 01 F	27 / 04		H 01 B	11 / 06		H 01 R	4 / 18
	A 01 B	39 / 00	46	E 02 F	3 / 96		H 01 F	27 / 14	36	H 01 B	11 / 06		H 02 G	15 / 08
663-668	A 01 B	63 / 00	47	B 25 B	21 / 00		H 02 G	15 / 26		H 01 B	7 / 29		H 02 G	3 / 06
669-676	A 01 B		48	E 02 D	7 / 02	13	H 01 B	11 / 00	37-39	H 02 G	9 / 00			4 / 00
669	A 01 B	59 / 042	49	E 02 D	7 / 18		H 01 B	5 / 00	40CC	H 02 G	3 / 32			15 / 08
670	A 01 B	59 / 02		E 21 B	7 / 24		H 01 B	7 / 00		H 02 G	7 / 08			3 / 06
671	A 01 B	3 / 06	50-52	E 21 B			H 01 B	9 / 00	40R	H 02 G	7 / 05	94R	H 01 R	4 / 02
673	A 01 B	63 / 02		E 21 C			H 01 B	9 / 06		H 02 G	7 / 12		H 01 R	4 / 18
674	A 01 B	17 / 00	50	B 25 F	3 / 00	14BH	H 02 G	15 / 20		H 02 G	7 / 20		H 01 R	4 / 62
675	A 01 H	5 / 02	51	A 01 H	5 / 02	14R	H 01 B	9 / 06	40TD	H 02 G	7 / 02	94S	H 01 R	4 / 28
676	A 01 B	37 / 00	52	B 23 Q	7 / 04		H 02 G			H 02 G	7 / 18	95-97	H 02 G	3 / 04
677-680	A 01 B	59 / 00	53-56	E 21 B	1 / 00	15.1	H 01 B	9 / 06	41	H 02 G	7 / 06	98	H 02 G	3 / 00
681-698	A 01 B	15 / 00	58-80	B 25 D	17 / 14		H 02 G	3 / 03	42	H 02 G	7 / 14		H 02 G	3 / 04
	A 01 B	23 / 00	81-92	B 25 D	11 / 00		H 05 K	7 / 20	43-44	H 02 G	7 / 20	99B	H 02 G	5 / 00
	A 01 B	31 / 00		B 25 D	13 / 00	15.2	H 01 B	7 / 42	45R	E 04 H	12 / 24	99E	H 02 G	3 / 04
	A 01 B	35 / 20		B 25 D	9 / 00		H 05 K	7 / 20		H 02 G	7 / 20		H 02 G	3 / 06
	A 01 B	39 / 20		E 21 B	1 / 00	15.3	H 01 B	17 / 26	45TD	H 02 G	7 / 02	99R	H 02 G	3 / 00
699-700	A 01 B	13 / 08	93-93.7	B 25 D	15 / 00		H 01 B	17 / 54	46	B 25 G	1 / 00		H 02 G	5 / 04
701	A 01 B	13 / 02	94-138	B 23 B	45 / 16		H 02 G	15 / 20		B 25 G	1 / 12		H 02 G	5 / 06
701.1-701.3	E 02 F	3 / 80		B 25 D	11 / 00	15.4	H 01 B	12 / 00		H 01 B	17 / 56	100-101	H 02 G	3 / 00
702-712	A 01 B	15 / 00		B 25 D	13 / 00	15.5	H 01 B	12 / 00	47	F 16 L	11 / 12	101.5	H 01 B	7 / 12
	A 01 B	23 / 00		B 25 D	16 / 00		H 01 R	4 / 68		H 01 B	17 / 00	102A	H 01 B	1 / 02
	A 01 B	31 / 00		B 25 D	9 / 00		H 02 G	15 / 34		H 01 B	7 / 00		H 01 B	7 / 18
	A 01 B	35 / 20		E 21 B	1 / 00	15.6	H 01 B	7 / 42	50	H 01 J	15 / 00		H 01 B	7 / 20
	A 01 B	39 / 20	140	B 21 J			H 01 B	9 / 06		H 01 J	5 / 00		H 01 B	9 / 02
713	A 01 B	23 / 02		B 23 Q			H 02 G	15 / 20		H 02 G	3 / 08		H 01 B	9 / 04
714-719	A 01 B	15 / 00		B 25 D		15.7	H 01 B	7 / 42		H 05 K	5 / 00	102C-102D	H 01 B	7 / 18
	A 01 B	23 / 00		E 02 D		16.1	H 01 B	7 / 42	50.5-50.64	H 01 J	15 / 00		H 01 B	7 / 20
	A 01 B	31 / 00		E 21 B	7 / 02		H 01 B	9 / 06		H 01 J	5 / 00		H 01 B	9 / 02
	A 01 B	35 / 20		E 21 B			H 02 G	3 / 03		H 05 K	5 / 06	102E-102P	H 01 B	7 / 00
	A 01 B	39 / 20		E 21 C			H 05 K	7 / 20	51	H 05 K	5 / 02		H 01 B	7 / 18
720	A 01 B	39 / 18	141-161	B 23 Q	5 / 00	16.2	H 02 G	5 / 10	53-58	H 01 H	13 / 04		H 01 B	9 / 02
721-753	A 01 B	39 / 20	162.1	B 25 D	17 / 11	16.3	H 01 L	23 / 26		H 01 H	19 / 04	102R	H 01 B	7 / 18
734-753	A 01 B	23 / 00		B 25 D	17 / 24		H 05 K	7 / 20		H 01 H	21 / 04		H 01 B	9 / 02
	A 01 B	31 / 00	162.2	B 25 D	17 / 00	17CT	H 05 K	5 / 00		H 01 H	23 / 04	102SC	H 01 B	1 / 00
	A 01 B	35 / 20	164-167	E 21 B	3 / 00	17GF	H 05 K	3 / 16		H 01 H	9 / 02		H 01 B	7 / 18
734-775	A 01 B	15 / 00	168-169	B 23 B	45 / 04		H 05 K	5 / 00		H 01 R	13 / 46		H 01 B	9 / 02
762-775	A 01 B	15 / 10	168-171	B 27 C	3 / 08	17LF	H 01 B	3 / 20	59-60	H 01 R	13 / 46	102SP	H 01 B	7 / 18
	A 01 B	23 / 00	170-171	B 23 B	45 / 00		H 05 K	5 / 00		H 02 G	3 / 18		H 01 B	7 / 22
	A 01 B	31 / 00	171	B 25 D	17 / 04	17R	H 01 B	3 / 16	61-64	H 02 B	1 / 30		H 01 B	9 / 02
	A 01 B	35 / 26	176-183	B 23 Q	5 / 00		H 01 B	3 / 18		H 02 G	13 / 00	103-107	H 01 B	7 / 18
	A 01 B	39 / 20	184-189	E 21 B	7 / 02		H 01 F	27 / 32	66-67	H 02 G	3 / 14		H 01 B	9 / 02
762-776	A 01 B	35 / 20	190-196	E 21 B	15 / 04	17SF	H 05 K	5 / 00		H 05 K	5 / 03	108-109	H 01 B	17 / 22
776	A 01 B	15 / 14	197-199	B 25 D	17 / 14		H 05 K	5 / 02	68.1	H 01 B			H 01 B	7 / 18
	A 01 B	23 / 04	200-212	B 23 B	45 / 16	17VA	H 05 K	5 / 00		H 02 G	3 / 04		H 01 B	9 / 02
	A 01 B	39 / 24		B 25 D	11 / 00		H 05 K	7 / 20		H 02 G		110A	H 01 B	3 / 10
777-799	E 02 F	3 / 00		B 25 D	13 / 00	17.05-17.08	H 05 K	5 / 06	68.2	H 02 G	5 / 00	110AR	H 01 B	3 / 28
799.5	E 02 F	3 / 76		B 25 D	16 / 00	18	H 05 K	5 / 00	68.3	H 02 G	3 / 04	110B	H 01 B	3 / 28
810	A 01 B	59 / 04		B 25 D	9 / 00	19-20	H 02 G	15 / 22	69	H 01 B	7 / 06	110D	H 01 B	3 / 30
	E 02 F	3 / 00	213-222	E 21 B	17 / 22	21C	H 02 G	15 / 08	70A	H 01 B	7 / 18	110E	H 01 B	3 / 40
811	E 02 F	3 / 76		E 21 B	19 / 16	21CA-21JS	H 02 G	15 / 08	70B	H 02 G	5 / 00	110F	H 01 B	3 / 44
812-813	E 02 F	3 / 85		E 21 B	19 / 18	21R	H 02 G	15 / 24	70C	H 01 B	7 / 08	110FC-110PM	H 01 B	3 / 44
814-832	E 02 F	3 / 76		E 21 B	3 / 00		H 02 G	15 / 26		H 02 G	3 / 04	110N	H 01 B	3 / 30
833-834	A 01 B	59 / 048					H 02 G	5 / 06	70R	H 01 B		110P	H 01 B	3 / 18
						22C	H 02 G	15 / 24		H 02 G	3 / 00	110R	H 01 B	3 / 30
						22R	H 02 G	15 / 24	70S	H 02 G	15 / 14		H 01 B	3 / 44
							H 02 G	15 / 25	71B	H 01 B			H 01 B	7 / 295
							H 02 G	5 / 06		H 02 G	5 / 00	110S	H 01 B	3 / 46
						23C	H 01 B	7 / 17		H 02 G		110SR-110SY	H 01 B	3 / 30
						23R	H 01 B	11 / 00	71C	H 01 B		110V	H 01 B	3 / 44
							H							

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U.S.			IPC			U.S.			IPC			U.S.			IPC		
Subclass	Subclass	Notation	Subclass	Subclass	Notation	Subclass	Subclass	Notation	Subclass	Subclass	Notation	Subclass	Subclass	Notation	Subclass	Subclass	Notation
<b>U.S. CLASS 174--Con.</b>																	
117A	H 01 B	7/00	152E	H 01 B	17/26		H 01 L	23/055	66	E 21 B	21/06	317-318	E 21 B	41/00			
117AS	H 01 B	7/08		H 01 B	17/30	541	H 05 K	7/02	67	E 21 B	43/114	319	E 21 B	4/00			
117F	H 01 P	3/04	152G	H 01 B	17/26	542-545	H 05 K	7/14		E 21 B	7/18	320-322	E 21 B	19/00			
117FF	H 01 B	7/08		H 02 G	3/22	546	H 05 K	5/00	68	C 09 K	8/38		E 21 B	21/00			
117M	H 01 B	7/08	152GM	H 01 B	17/26	547-548	H 05 K	7/20	69-72	E 21 B	21/16	320-324	E 21 B	17/00			
117R	H 01 B	7/02		H 01 B	17/30	549	H 01 L	23/48	69	C 09 K	8/02	323	E 21 B	10/44			
	H 01 B	7/08	152R	H 01 B	17/26	550	H 01 L	23/485	70	E 21 B	21/14	324	E 21 B	17/22			
	H 01 B	7/18		H 01 J	5/32	551-553	H 01 L	23/48	71	E 21 B	21/00		E 21 B	19/00			
118-119	H 01 B	7/00	152S	H 01 B	17/26	554	H 01 L	23/045	72	E 21 B	21/16	325.1-326	E 21 B	21/00			
120AR	H 01 B	7/00		H 01 T	13/20	555-558	H 01 L	23/055		E 21 B	7/00	325.1-326	E 21 B	17/10			
120C	H 01 B	7/00	153A	H 01 Q	1/12	559-563	H 01 R	13/502	73-75	E 21 B	7/08	327-328	E 21 C	25/04			
120FP	H 01 B	7/00	153G	H 01 B	17/26	564	H 01 L	23/02	73	E 21 B	15/04	327-333	E 21 B	10/00			
120R	H 01 B	7/00		H 02 G	3/22	565	H 01 L	23/06	74	E 21 B	7/04	331	E 21 B	10/08			
120SC-121A	H 01 B	7/00	153R	H 01 B	17/26	650-669	H 02 G	3/18	76	E 21 B	7/10	332	E 21 B	10/06			
121AR	H 01 B	7/00		H 01 B	17/30	<b>U.S. CLASS 175 BORING OR PENETRATING THE EARTH</b>											
121B-121R	H 01 B	7/00		H 01 R	9/16	1	E 21 B	47/00	77-78	E 21 B	17/10	333	E 21 B	10/04			
121SR-122R	H 01 B	7/00	154-157	H 01 B	17/00	2	E 21 B	7/00	77-83	E 21 B	7/00	334-335	E 21 B	10/28			
124G	H 01 B	3/02	158F	H 01 B	17/14	3	E 21 B	25/00		E 21 B	49/02	336-343	E 21 B	10/00			
	H 01 B	3/08			17/00	3.5	E 21 B	7/00		E 21 B	7/08	344-347	E 21 B	10/30			
124GC	H 01 B	3/02	160	H 01 B	17/06	4	E 21 B	49/02	77	E 21 B	15/04	348-379	E 21 B	10/00			
	H 01 B	3/08			17/16	4.5	E 21 B	43/116	84	E 21 B	41/00	380	E 21 B	7/16			
124R	H 01 B	3/04	166R	F 21 V	21/02	5	E 21 B	15/02	85	E 21 B	19/00	381-384	E 21 B	10/00			
	H 01 B	3/50		H 01 B	17/14	6	E 21 B	19/09	86	E 21 B	41/00	385-386	E 21 B	10/26			
	H 01 B	7/02		H 01 B	17/24	7-10	E 21 B	15/02		E 21 D	1/06	387	E 21 B	10/00			
125.1	H 01 B	12/00	166S	H 01 R	9/16	11	E 21 B	7/14	87	E 21 B	25/00	388-392	E 21 B	10/40			
126.1-126.3	H 01 B	5/00		H 01 B	17/58	11-15	E 21 B	7/14		E 21 B	41/00	393	E 21 B	10/60			
126.4	H 01 B	5/14	168-186	H 01 B	17/00	11-16	E 21 C	37/16	88	E 21 B	41/00	394-395	E 21 B	10/44			
127	H 01 B	5/00		H 01 B	17/54	16-17	E 21 B	7/00	89	E 21 B	11/06	395	E 21 B	10/36			
128.1-128.2	H 01 B	5/08	188-189	H 01 B	17/08	16	F 42 D	3/00	90-91	E 21 B	10/00	396	A 01 C	5/02			
129B	H 01 B	5/02		H 01 B	17/38	17	G 21 J	3/02	91	E 21 B	11/00		E 21 B	10/42			
129R	H 01 B	5/08	190	H 01 B	17/08	18	E 21 B	36/00	92-107	E 21 B	4/00	397	E 21 B	10/42			
	H 01 B	5/10		H 01 B	17/40	19-23	E 21 B	7/26	101-103	E 21 B	19/22	398-401	E 21 B	10/00			
	H 02 G	5/00	191-193	H 01 B	17/00	24-38	E 21 B	44/00	108	E 21 B	7/00	402	E 21 B	17/14			
129S	H 01 B	5/00	194-206	H 01 B	17/20	25	E 21 B	21/08	113-122	E 21 B	3/02	403-405.1	E 21 B	10/00			
130-131	H 01 B	5/10		H 01 B	17/38	27	E 21 B	19/08	122	E 21 B	1/02	406-407	E 21 B	10/26			
131R	H 01 B	5/00	207	H 01 B	17/06	28	E 21 B	37/00	135	E 21 B	1/00	408	E 21 B	17/10			
	H 01 B	5/10		H 01 B	17/38	29	E 21 B	21/08	161	E 21 B	27/00	412-413	E 21 B	10/00			
	H 01 B	9/00	208	H 01 B	17/24	30	E 21 B	7/132	162	E 21 B	19/08	414-420.2	E 21 B	10/36			
133B	H 01 B	5/02	209	H 01 B	17/32	31	E 21 B	7/12	170-173	E 21 B	1/02	421	E 21 B	10/42			
133R	A 01 H	5/02		H 01 B	17/60	38	C 09 K	8/02		E 21 B	7/20	423	E 21 B	19/10			
	C 23 C	28/02	210	H 01 B	17/20	39	E 21 B	21/08	170-189	E 21 B	3/00	424	E 21 B	41/00			
	C 25 D	5/10		H 01 B	17/32	40-41	E 21 B	47/00	189	E 21 B	1/00		E 21 B	43/114			
135	H 01 B	7/00	211	H 01 B	17/50	42	C 09 K	8/02	195	E 21 B	3/04	425-435	E 21 B	10/36			
136	H 01 B	7/24		H 01 B	17/52	44-45	E 21 B	25/16	202	E 21 B	23/00	<b>U.S. CLASS 177 WEIGHING SCALES</b>					
137A	H 01 B	17/32	212	H 01 B	17/00	46	E 21 B	21/00	203	E 21 B	19/08	1	G 01 G	17/00			
	H 01 B	17/50	250	H 05 K	1/00	49	E 21 B	7/00		E 21 B	3/06		G 01 G	19/00			
137B	H 01 B	3/00	251	H 05 K	1/09	49	E 21 B	7/00	205	C 09 K	8/02	2-13	G 01 G	23/38			
137R	H 01 B	17/00	252-254	H 05 K	1/00	50	E 21 B	47/18	206-207	E 21 B	21/12	14	G 01 G	13/24			
	H 01 B	17/54	255	H 05 K	1/03	51	E 21 B	1/00		E 21 B	21/06	15	G 01 G	19/40			
138A	H 01 Q	1/12	256	H 05 K	1/03	52	E 21 B	19/00		E 21 B	21/00	16	G 01 G	11/14			
138B	H 01 H	17/08		H 05 K	1/09	53	E 21 D	1/06	208	E 21 B	1/00	17-24	G 01 G	19/40			
138C	H 01 B	3/00	257	H 05 K	1/09	54	E 21 D	3/00	209-218	E 21 B	17/18	25.11	G 01 G	19/22			
138D	H 05 K	7/14	258	H 05 K	1/00	55	E 21 B	7/16		E 21 B	21/00	25.17	G 01 G	19/42			
138E	H 01 F	27/32	259	H 05 K	1/02	56	E 21 B	7/04	219	E 21 B	41/00	25.18	G 01 G	13/00			
138F	H 01 R	4/70	260	H 05 K	1/16	57	E 21 B	7/00	220	E 21 B	15/00	25.19	G 01 G	19/40			
138G	H 05 K	3/30	261-267	H 01 R	12/04	58-60	E 21 B	49/00	226	E 21 B	25/08	26-44	G 01 G	23/18			
	H 05 K	7/12		H 05 K	1/11	59	E 21 B	21/08	227-229	E 21 B	10/24	45-47	G 01 G	23/22			
138H	F 21 V	19/00	268	H 05 K	1/00	61	E 21 B	7/04	230	E 21 B	17/10	48	G 01 G	23/18			
	G 09 F	13/26	350-358	H 05 K	9/00	62	E 02 D	29/00	231	E 21 B	10/00	49	G 01 G	23/18			
	G 09 F	13/28	359-360	H 01 R	13/648	64	E 21 B	7/00	232-243	E 21 B	27/00	50-51	G 01 G	19/52			
138J	H 05 B	3/00	361	H 01 R	13/24	65	E 21 B	21/00	232-255	E 21 B	25/00	52-54	G 01 G	13/00			
138R	F 16 B	33/00		H 01 R	13/648				244-255	E 21 B	10/02	55-57	G 01 G	13/24			
	F 16 B	37/00	362	H 02 G	3/18					E 21 B	49/02	58	G 01 G	19/00			
	H 01 B	17/14	363-376	H 01 R	4/00					E 21 B	7/08	59	G 01 G	21/28			
138S	H 01 T	13/20	377-397	H 05 K	9/00					E 21 B	27/00	60	G 01 G	13/16			
139-140	H 01 B	17/00	480	H 02 B	1/40					E 21 B	21/06	61	G 01 G	13/00			
140CR	H 01 B	17/44	481	H 02 G	3/08					E 21 B	10/64	62-67	G 01 G	13/02			
140H	H 01 B	17/42	482	H 02 G	3/18					E 21 B	11/06	68	G 01 G	13/02			
140R	H 01 B	17/20	483-488	H 02 G	3/08					E 21 B	10/64	69-70	G 01 G	19/22			
	H 01 B	17/42	489	H 02 G	3/16					E 21 B	11/00	71-72	G 01 G	13/24			
	H 01 B	17/46	490	H 02 G	3/08					E 21 B	10/66	73-79	G 01 G	13/02			
140S	H 01 B	17/12	491	H 02 G	3/20					E 21 B	10/66	80	G 01 G	13/00			
141C	H 01 B	17/00															