

EUROPEAN PATENT OFFICE
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 1235

DATE: JANUARY 1, 2022

PROJECT RP0758

The following classification changes will be effected by this Notice of Changes:

<u>Action</u>	<u>Subclass</u>	<u>Group(s)</u>
SCHEME:		
Symbols Deleted:	F24H	1/0081
	F24H	9/0047, 9/122, 9/124, 9/126, 9/128, 9/165
Symbols New:	F24H	1/54
	F24H	9/13, 9/133, 9/136, 9/139, 9/17, 9/1832, 9/1877, 9/25, 9/28, 9/40, 9/45, 9/455, 9/457
	F24H	15/00, 15/10, 15/104, 15/108, 15/112, 15/116, 15/12, 15/124, 15/128, 15/132, 15/136, 15/14, 15/144, 15/148, 15/152, 15/156, 15/16, 15/164, 15/168, 15/172, 15/174, 15/175, 15/176, 15/18, 15/184, 15/196, 15/20, 15/204, 15/208, 15/212, 15/215, 15/219, 15/223, 15/225, 15/227, 15/231, 15/232, 15/235, 15/238, 15/242, 15/246, 15/248, 15/25, 15/254, 15/258, 15/262, 15/265, 15/269, 15/273, 15/277, 15/281, 15/288, 15/292, 15/296, 15/30, 15/305, 15/31, 15/315, 15/32, 15/325, 15/33, 15/335, 15/34, 15/345, 15/35, 15/355, 15/36, 15/365, 15/37, 15/375, 15/38, 15/385, 15/39, 15/395, 15/40, 15/407, 15/414, 15/421, 15/429, 15/436, 15/443, 15/45, 15/457, 15/464, 15/479, 15/486, 15/493
Titles Changed:	F24H	Subclass
	F24H	1/00, 1/10, 1/18, 1/181, 1/182, 1/183, 1/22, 1/24, 1/34, 1/38, 1/40, 1/44
	F24H	3/00, 3/006, 3/008, 3/02, 3/025, 3/027, 3/0488, 3/0494, 3/065, 3/067, 3/087, 3/088, 3/105, 3/107
	F24H	4/00, 4/02, 4/06
	F24H	6/00
	F24H	7/00, 7/002, 7/005, 7/007, 7/02, 7/0208, 7/0233, 7/025, 7/0266, 7/0275, 7/0291, 7/0408, 7/0433, 7/045, 7/0466, 7/0475, 7/0491
	F24H	8/00
	F24H	9/12, 9/14, 9/16, 9/18, 9/1809, 9/1818, 9/1827, 9/1836, 9/1845, 9/1854, 9/1863, 9/1872, 9/1881, 9/189, 9/20, 9/2014, 9/2035, 9/2057, 9/2071, 9/2078, 9/2085, 9/2092

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<u>Action</u>	<u>Subclass</u>	<u>Group(s)</u>
Indents Changed:	F24H	9/1836, 9/1845, 9/1881, 9/189
Warnings Deleted:	F24H	Subclass
Warnings New:	F24D	19/10, 19/1003, 19/1006, 19/1009, 19/1012, 19/1015, 19/1018, 19/1021, 19/1024, 19/1027, 19/103, 19/1033, 19/1036, 19/1039, 19/1042, 19/1045, 19/1048, 19/1051, 19/1054, 19/1057, 19/106, 19/1063, 19/1066, 19/1069, 19/1072, 19/1075, 19/1078, 19/1081, 19/1084, 19/1087, 19/109, 19/1093, 19/1096
	F24H	9/1809, 9/1832, 9/1854, 9/1877, 9/20, 9/2007, 9/2014, 9/2021, 9/2028, 9/2035, 9/2042, 9/205, 9/2057, 9/2064, 9/2071, 9/2078, 9/2085, 9/2092, 9/25, 9/40, 9/45
	F24H	15/00
Notes Modified:	F24H	Subclass
DEFINITIONS:		
Definitions New:	F24H	1/10, 1/18, 1/181, 1/182, 1/183, 1/22, 1/24, 1/34, 1/38, 1/40, 1/48
	F24H	3/02
	F24H	9/12, 9/14, 9/16, 9/18, 9/20
	F24H	15/204, 15/457
Definitions Modified:	F24H	Subclass
	F24H	1/00
	F24H	3/00
	F24H	4/00
	F24H	6/00
	F24H	7/00
	F24H	8/00
	F24H	9/00

The following subclasses/groups are also impacted by this Notice of Changes: A61H, C23F, F24D

This Notice of Changes includes the following [Check the ones included]:

1. CLASSIFICATION SCHEME CHANGES

- A. New, Modified or Deleted Group(s)
- B. New, Modified or Deleted Warning(s)
- C. New, Modified or Deleted Note(s)

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D. New, Modified or Deleted Guidance Heading(s)

2. DEFINITIONS

A. New or Modified Definitions (Full definition template)

B. Modified or Deleted Definitions (Definitions Quick Fix)

3. REVISION CONCORDANCE LIST (RCL)

4. CHANGES TO THE CPC-TO-IPC CONCORDANCE LIST (CICL)

5. CHANGES TO THE CROSS-REFERENCE LIST (CRL)

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1. CLASSIFICATION SCHEME CHANGES

A. New, Modified or Deleted Group(s)

SUBCLASS F24D - DOMESTIC- OR SPACE-HEATING SYSTEMS, e.g. CENTRAL HEATING SYSTEMS; DOMESTIC HOT-WATER SUPPLY SYSTEMS; ELEMENTS OR COMPONENTS THEREFOR

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title</u> <u>“CPC only” text should normally be enclosed in {curly brackets}**</u>	<u>Transferred to#</u>
C	F24D19/10	1	Arrangement or mounting of control or safety devices (only the heater being controlled F24H9/20)	F24D19/10, F24H 15/00, F24H 15/10, F24H 15/104, F24H 15/108, F24H 15/112, F24H 15/116, F24H 15/12, F24H 15/124, F24H 15/128, F24H 15/132, F24H 15/136, F24H 15/14, F24H 15/144, F24H 15/148, F24H 15/152, F24H 15/156, F24H 15/16, F24H 15/164, F24H 15/168, F24H 15/172, F24H 15/174, F24H 15/175, F24H 15/176, F24H 15/18, F24H 15/184, F24H 15/196, F24H 15/20, F24H 15/204, F24H 15/208, F24H 15/212, F24H 15/215, F24H 15/219, F24H 15/223, F24H 15/225, F24H 15/227, F24H 15/231, F24H 15/232, F24H 15/235, F24H 15/238, F24H 15/242, F24H 15/246, F24H 15/248, F24H 15/25, F24H 15/254, F24H 15/258, F24H 15/262, F24H 15/265, F24H 15/269, F24H 15/273, F24H 15/277, F24H 15/281, F24H 15/288, F24H 15/292, F24H 15/296, F24H 15/30, F24H 15/305, F24H 15/31, F24H 15/315, F24H 15/32, F24H 15/325, F24H 15/33, F24H 15/335, F24H 15/34, F24H 15/345, F24H 15/35, F24H 15/355, F24H 15/36, F24H 15/365, F24H 15/37, F24H 15/375, F24H 15/38, F24H 15/385, F24H 15/39, F24H 15/395, F24H 15/40, F24H 15/407, F24H 15/414, F24H 15/421, F24H 15/429, F24H 15/436, F24H 15/443, F24H 15/45, F24H 15/457, F24H 15/464, F24H 15/479, F24H 15/486, F24H 15/493

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C	F24D19/1003	2	{for steam heating systems }	F24D19/1003, F24H 15/00, F24H 15/10, F24H 15/104, F24H 15/108, F24H 15/112, F24H 15/116, F24H 15/12, F24H 15/124, F24H 15/128, F24H 15/132, F24H 15/136, F24H 15/14, F24H 15/144, F24H 15/148, F24H 15/152, F24H 15/156, F24H 15/16, F24H 15/164, F24H 15/168, F24H 15/172, F24H 15/174, F24H 15/175, F24H 15/176, F24H 15/18, F24H 15/184, F24H 15/196, F24H 15/20, F24H 15/204, F24H 15/208, F24H 15/212, F24H 15/215, F24H 15/219, F24H 15/223, F24H 15/225, F24H 15/227, F24H 15/231, F24H 15/232, F24H 15/235, F24H 15/238, F24H 15/242, F24H 15/246, F24H 15/248, F24H 15/25, F24H 15/254, F24H 15/258, F24H 15/262, F24H 15/265, F24H 15/269, F24H 15/273, F24H 15/277, F24H 15/281, F24H 15/288, F24H 15/292, F24H 15/296, F24H 15/30, F24H 15/305, F24H 15/31, F24H 15/315, F24H 15/32, F24H 15/325, F24H 15/33, F24H 15/335, F24H 15/34, F24H 15/345, F24H 15/35, F24H 15/355, F24H 15/36, F24H 15/365, F24H 15/37, F24H 15/375, F24H 15/38, F24H 15/385, F24H 15/39, F24H 15/395, F24H 15/40, F24H 15/407, F24H 15/414, F24H 15/421, F24H 15/429, F24H 15/436, F24H 15/443, F24H 15/45, F24H 15/457, F24H 15/464, F24H 15/479, F24H 15/486, F24H 15/493
C	F24D19/1006	2	{for water heating systems }	F24D19/1006, F24H 15/00, F24H 15/10, F24H 15/104, F24H 15/108, F24H 15/112, F24H 15/116, F24H 15/12, F24H 15/124, F24H 15/128, F24H 15/132, F24H 15/136, F24H 15/14, F24H 15/144, F24H 15/148, F24H 15/152, F24H 15/156, F24H 15/16, F24H 15/164, F24H 15/168, F24H 15/172, F24H 15/174, F24H 15/175, F24H 15/176, F24H 15/18,

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				F24H 15/184, F24H 15/196, F24H 15/20, F24H 15/204, F24H 15/208, F24H 15/212, F24H 15/215, F24H 15/219, F24H 15/223, F24H 15/225, F24H 15/227, F24H 15/231, F24H 15/232, F24H 15/235, F24H 15/238, F24H 15/242, F24H 15/246, F24H 15/248, F24H 15/25, F24H 15/254, F24H 15/258, F24H 15/262, F24H 15/265, F24H 15/269, F24H 15/273, F24H 15/277, F24H 15/281, F24H 15/288, F24H 15/292, F24H 15/296, F24H 15/30, F24H 15/305, F24H 15/31, F24H 15/315, F24H 15/32, F24H 15/325, F24H 15/33, F24H 15/335, F24H 15/34, F24H 15/345, F24H 15/35, F24H 15/355, F24H 15/36, F24H 15/365, F24H 15/37, F24H 15/375, F24H 15/38, F24H 15/385, F24H 15/39, F24H 15/395, F24H 15/40, F24H 15/407, F24H 15/414, F24H 15/421, F24H 15/429, F24H 15/436, F24H 15/443, F24H 15/45, F24H 15/457, F24H 15/464, F24H 15/479, F24H 15/486, F24H 15/493
C	F24D19/1009	3	{for central heating}	F24D19/1009, F24H 15/00, F24H 15/10, F24H 15/104, F24H 15/108, F24H 15/112, F24H 15/116, F24H 15/12, F24H 15/124, F24H 15/128, F24H 15/132, F24H 15/136, F24H 15/14, F24H 15/144, F24H 15/148, F24H 15/152, F24H 15/156, F24H 15/16, F24H 15/164, F24H 15/168, F24H 15/172, F24H 15/174, F24H 15/175, F24H 15/176, F24H 15/18, F24H 15/184, F24H 15/196, F24H 15/20, F24H 15/204, F24H 15/208, F24H 15/212, F24H 15/215, F24H 15/219, F24H 15/223, F24H 15/225, F24H 15/227, F24H 15/231, F24H 15/232, F24H 15/235, F24H 15/238, F24H 15/242, F24H 15/246, F24H 15/248, F24H 15/25, F24H 15/254, F24H 15/258, F24H 15/262, F24H 15/265, F24H 15/269, F24H 15/273,

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				F24H 15/277, F24H 15/281, F24H 15/288, F24H 15/292, F24H 15/296, F24H 15/30, F24H 15/305, F24H 15/31, F24H 15/315, F24H 15/32, F24H 15/325, F24H 15/33, F24H 15/335, F24H 15/34, F24H 15/345, F24H 15/35, F24H 15/355, F24H 15/36, F24H 15/365, F24H 15/37, F24H 15/375, F24H 15/38, F24H 15/385, F24H 15/39, F24H 15/395, F24H 15/40, F24H 15/407, F24H 15/414, F24H 15/421, F24H 15/429, F24H 15/436, F24H 15/443, F24H 15/45, F24H 15/457, F24H 15/464, F24H 15/479, F24H 15/486, F24H 15/493
C	F24D19/1012	4	{by regulating the speed of a pump}	F24D19/1012, F24H 15/00, F24H 15/10, F24H 15/104, F24H 15/108, F24H 15/112, F24H 15/116, F24H 15/12, F24H 15/124, F24H 15/128, F24H 15/132, F24H 15/136, F24H 15/14, F24H 15/144, F24H 15/148, F24H 15/152, F24H 15/156, F24H 15/16, F24H 15/164, F24H 15/168, F24H 15/172, F24H 15/174, F24H 15/175, F24H 15/176, F24H 15/18, F24H 15/184, F24H 15/196, F24H 15/20, F24H 15/204, F24H 15/208, F24H 15/212, F24H 15/215, F24H 15/219, F24H 15/223, F24H 15/225, F24H 15/227, F24H 15/231, F24H 15/232, F24H 15/235, F24H 15/238, F24H 15/242, F24H 15/246, F24H 15/248, F24H 15/25, F24H 15/254, F24H 15/258, F24H 15/262, F24H 15/265, F24H 15/269, F24H 15/273, F24H 15/277, F24H 15/281, F24H 15/288, F24H 15/292, F24H 15/296, F24H 15/30, F24H 15/305, F24H 15/31, F24H 15/315, F24H 15/32, F24H 15/325, F24H 15/33, F24H 15/335, F24H 15/34, F24H 15/345, F24H 15/35, F24H 15/355, F24H 15/36, F24H 15/365, F24H 15/37, F24H 15/375, F24H 15/38, F24H 15/385, F24H 15/39, F24H 15/395,

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				F24H 15/40, F24H 15/407, F24H 15/414, F24H 15/421, F24H 15/429, F24H 15/436, F24H 15/443, F24H 15/45, F24H 15/457, F24H 15/464, F24H 15/479, F24H 15/486, F24H 15/493
C	F24D19/1015	4	{using a valve or valves}	F24D19/1015, F24H 15/00, F24H 15/10, F24H 15/104, F24H 15/108, F24H 15/112, F24H 15/116, F24H 15/12, F24H 15/124, F24H 15/128, F24H 15/132, F24H 15/136, F24H 15/14, F24H 15/144, F24H 15/148, F24H 15/152, F24H 15/156, F24H 15/16, F24H 15/164, F24H 15/168, F24H 15/172, F24H 15/174, F24H 15/175, F24H 15/176, F24H 15/18, F24H 15/184, F24H 15/196, F24H 15/20, F24H 15/204, F24H 15/208, F24H 15/212, F24H 15/215, F24H 15/219, F24H 15/223, F24H 15/225, F24H 15/227, F24H 15/231, F24H 15/232, F24H 15/235, F24H 15/238, F24H 15/242, F24H 15/246, F24H 15/248, F24H 15/25, F24H 15/254, F24H 15/258, F24H 15/262, F24H 15/265, F24H 15/269, F24H 15/273, F24H 15/277, F24H 15/281, F24H 15/288, F24H 15/292, F24H 15/296, F24H 15/30, F24H 15/305, F24H 15/31, F24H 15/315, F24H 15/32, F24H 15/325, F24H 15/33, F24H 15/335, F24H 15/34, F24H 15/345, F24H 15/35, F24H 15/355, F24H 15/36, F24H 15/365, F24H 15/37, F24H 15/375, F24H 15/38, F24H 15/385, F24H 15/39, F24H 15/395, F24H 15/40, F24H 15/407, F24H 15/414, F24H 15/421, F24H 15/429, F24H 15/436, F24H 15/443, F24H 15/45, F24H 15/457, F24H 15/464, F24H 15/479, F24H 15/486, F24H 15/493

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C	F24D19/1018	5	{Radiator valves}	F24D19/1018, F24H 15/00, F24H 15/10, F24H 15/104, F24H 15/108, F24H 15/112, F24H 15/116, F24H 15/12, F24H 15/124, F24H 15/128, F24H 15/132, F24H 15/136, F24H 15/14, F24H 15/144, F24H 15/148, F24H 15/152, F24H 15/156, F24H 15/16, F24H 15/164, F24H 15/168, F24H 15/172, F24H 15/174, F24H 15/175, F24H 15/176, F24H 15/18, F24H 15/184, F24H 15/196, F24H 15/20, F24H 15/204, F24H 15/208, F24H 15/212, F24H 15/215, F24H 15/219, F24H 15/223, F24H 15/225, F24H 15/227, F24H 15/231, F24H 15/232, F24H 15/235, F24H 15/238, F24H 15/242, F24H 15/246, F24H 15/248, F24H 15/25, F24H 15/254, F24H 15/258, F24H 15/262, F24H 15/265, F24H 15/269, F24H 15/273, F24H 15/277, F24H 15/281, F24H 15/288, F24H 15/292, F24H 15/296, F24H 15/30, F24H 15/305, F24H 15/31, F24H 15/315, F24H 15/32, F24H 15/325, F24H 15/33, F24H 15/335, F24H 15/34, F24H 15/345, F24H 15/35, F24H 15/355, F24H 15/36, F24H 15/365, F24H 15/37, F24H 15/375, F24H 15/38, F24H 15/385, F24H 15/39, F24H 15/395, F24H 15/40, F24H 15/407, F24H 15/414, F24H 15/421, F24H 15/429, F24H 15/436, F24H 15/443, F24H 15/45, F24H 15/457, F24H 15/464, F24H 15/479, F24H 15/486, F24H 15/493
C	F24D19/1021	5	{a by pass valve}	F24D19/1021, F24H 15/00, F24H 15/10, F24H 15/104, F24H 15/108, F24H 15/112, F24H 15/116, F24H 15/12, F24H 15/124, F24H 15/128, F24H 15/132, F24H 15/136, F24H 15/14, F24H 15/144, F24H 15/148, F24H 15/152, F24H 15/156, F24H 15/16, F24H 15/164, F24H 15/168, F24H 15/172, F24H 15/174, F24H 15/175, F24H 15/176, F24H 15/18,

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C	F24D19/1024	5	{a multiple way valve}	F24D19/1024, F24H 15/00, F24H 15/10, F24H 15/104, F24H 15/108, F24H 15/112, F24H 15/116, F24H 15/12, F24H 15/124, F24H 15/128, F24H 15/132, F24H 15/136, F24H 15/14, F24H 15/144, F24H 15/148, F24H 15/152, F24H 15/156, F24H 15/16, F24H 15/164, F24H 15/168, F24H 15/172, F24H 15/174, F24H 15/175, F24H 15/176, F24H 15/18, F24H 15/184, F24H 15/196, F24H 15/20, F24H 15/204, F24H 15/208, F24H 15/212, F24H 15/215, F24H 15/219, F24H 15/223, F24H 15/225, F24H 15/227, F24H 15/231, F24H 15/232, F24H 15/235, F24H 15/238, F24H 15/242, F24H 15/246, F24H 15/248, F24H 15/25, F24H 15/254, F24H 15/258, F24H 15/262, F24H 15/265, F24H 15/269, F24H 15/273,

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<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title</u> <u>“CPC only” text should normally be enclosed in {curly brackets}**</u>	<u>Transferred to#</u>
				F24H 15/277, F24H 15/281, F24H 15/288, F24H 15/292, F24H 15/296, F24H 15/30, F24H 15/305, F24H 15/31, F24H 15/315, F24H 15/32, F24H 15/325, F24H 15/33, F24H 15/335, F24H 15/34, F24H 15/345, F24H 15/35, F24H 15/355, F24H 15/36, F24H 15/365, F24H 15/37, F24H 15/375, F24H 15/38, F24H 15/385, F24H 15/39, F24H 15/395, F24H 15/40, F24H 15/407, F24H 15/414, F24H 15/421, F24H 15/429, F24H 15/436, F24H 15/443, F24H 15/45, F24H 15/457, F24H 15/464, F24H 15/479, F24H 15/486, F24H 15/493
C	F24D19/1027	6	{hand operated}	F24D19/1027, F24H 15/00, F24H 15/10, F24H 15/104, F24H 15/108, F24H 15/112, F24H 15/116, F24H 15/12, F24H 15/124, F24H 15/128, F24H 15/132, F24H 15/136, F24H 15/14, F24H 15/144, F24H 15/148, F24H 15/152, F24H 15/156, F24H 15/16, F24H 15/164, F24H 15/168, F24H 15/172, F24H 15/174, F24H 15/175, F24H 15/176, F24H 15/18, F24H 15/184, F24H 15/196, F24H 15/20, F24H 15/204, F24H 15/208, F24H 15/212, F24H 15/215, F24H 15/219, F24H 15/223, F24H 15/225, F24H 15/227, F24H 15/231, F24H 15/232, F24H 15/235, F24H 15/238, F24H 15/242, F24H 15/246, F24H 15/248, F24H 15/25, F24H 15/254, F24H 15/258, F24H 15/262, F24H 15/265, F24H 15/269, F24H 15/273, F24H 15/277, F24H 15/281, F24H 15/288, F24H 15/292, F24H 15/296, F24H 15/30, F24H 15/305, F24H 15/31, F24H 15/315, F24H 15/32, F24H 15/325, F24H 15/33, F24H 15/335, F24H 15/34, F24H 15/345, F24H 15/35, F24H 15/355, F24H 15/36, F24H 15/365, F24H 15/37, F24H 15/375, F24H 15/38, F24H 15/385, F24H 15/39, F24H 15/395,

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C	F24D19/103	6	{bimetal operated}	F24D19/103, F24H 15/00, F24H 15/10, F24H 15/104, F24H 15/108, F24H 15/112, F24H 15/116, F24H 15/12, F24H 15/124, F24H 15/128, F24H 15/132, F24H 15/136, F24H 15/14, F24H 15/144, F24H 15/148, F24H 15/152, F24H 15/156, F24H 15/16, F24H 15/164, F24H 15/168, F24H 15/172, F24H 15/174, F24H 15/175, F24H 15/176, F24H 15/18, F24H 15/184, F24H 15/196, F24H 15/20, F24H 15/204, F24H 15/208, F24H 15/212, F24H 15/215, F24H 15/219, F24H 15/223, F24H 15/225, F24H 15/227, F24H 15/231, F24H 15/232, F24H 15/235, F24H 15/238, F24H 15/242, F24H 15/246, F24H 15/248, F24H 15/25, F24H 15/254, F24H 15/258, F24H 15/262, F24H 15/265, F24H 15/269, F24H 15/273, F24H 15/277, F24H 15/281, F24H 15/288, F24H 15/292, F24H 15/296, F24H 15/30, F24H 15/305, F24H 15/31, F24H 15/315, F24H 15/32, F24H 15/325, F24H 15/33, F24H 15/335, F24H 15/34, F24H 15/345, F24H 15/35, F24H 15/355, F24H 15/36, F24H 15/365, F24H 15/37, F24H 15/375, F24H 15/38, F24H 15/385, F24H 15/39, F24H 15/395, F24H 15/40, F24H 15/407, F24H 15/414, F24H 15/421, F24H 15/429, F24H 15/436, F24H 15/443, F24H 15/45, F24H 15/457, F24H 15/464, F24H 15/479, F24H 15/486, F24H 15/493

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C	F24D19/1033	6	{motor operated}	F24D19/1033, F24H 15/00, F24H 15/10, F24H 15/104, F24H 15/108, F24H 15/112, F24H 15/116, F24H 15/12, F24H 15/124, F24H 15/128, F24H 15/132, F24H 15/136, F24H 15/14, F24H 15/144, F24H 15/148, F24H 15/152, F24H 15/156, F24H 15/16, F24H 15/164, F24H 15/168, F24H 15/172, F24H 15/174, F24H 15/175, F24H 15/176, F24H 15/18, F24H 15/184, F24H 15/196, F24H 15/20, F24H 15/204, F24H 15/208, F24H 15/212, F24H 15/215, F24H 15/219, F24H 15/223, F24H 15/225, F24H 15/227, F24H 15/231, F24H 15/232, F24H 15/235, F24H 15/238, F24H 15/242, F24H 15/246, F24H 15/248, F24H 15/25, F24H 15/254, F24H 15/258, F24H 15/262, F24H 15/265, F24H 15/269, F24H 15/273, F24H 15/277, F24H 15/281, F24H 15/288, F24H 15/292, F24H 15/296, F24H 15/30, F24H 15/305, F24H 15/31, F24H 15/315, F24H 15/32, F24H 15/325, F24H 15/33, F24H 15/335, F24H 15/34, F24H 15/345, F24H 15/35, F24H 15/355, F24H 15/36, F24H 15/365, F24H 15/37, F24H 15/375, F24H 15/38, F24H 15/385, F24H 15/39, F24H 15/395, F24H 15/40, F24H 15/407, F24H 15/414, F24H 15/421, F24H 15/429, F24H 15/436, F24H 15/443, F24H 15/45, F24H 15/457, F24H 15/464, F24H 15/479, F24H 15/486, F24H 15/493
C	F24D19/1036	5	{Having differential pressure measurement facilities}	F24D19/1036, F24H 15/00, F24H 15/10, F24H 15/104, F24H 15/108, F24H 15/112, F24H 15/116, F24H 15/12, F24H 15/124, F24H 15/128, F24H 15/132, F24H 15/136, F24H 15/14, F24H 15/144, F24H 15/148, F24H 15/152, F24H 15/156, F24H 15/16, F24H 15/164, F24H 15/168, F24H 15/172, F24H 15/174, F24H 15/175, F24H 15/176, F24H 15/18,

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				F24H 15/184, F24H 15/196, F24H 15/20, F24H 15/204, F24H 15/208, F24H 15/212, F24H 15/215, F24H 15/219, F24H 15/223, F24H 15/225, F24H 15/227, F24H 15/231, F24H 15/232, F24H 15/235, F24H 15/238, F24H 15/242, F24H 15/246, F24H 15/248, F24H 15/25, F24H 15/254, F24H 15/258, F24H 15/262, F24H 15/265, F24H 15/269, F24H 15/273, F24H 15/277, F24H 15/281, F24H 15/288, F24H 15/292, F24H 15/296, F24H 15/30, F24H 15/305, F24H 15/31, F24H 15/315, F24H 15/32, F24H 15/325, F24H 15/33, F24H 15/335, F24H 15/34, F24H 15/345, F24H 15/35, F24H 15/355, F24H 15/36, F24H 15/365, F24H 15/37, F24H 15/375, F24H 15/38, F24H 15/385, F24H 15/39, F24H 15/395, F24H 15/40, F24H 15/407, F24H 15/414, F24H 15/421, F24H 15/429, F24H 15/436, F24H 15/443, F24H 15/45, F24H 15/457, F24H 15/464, F24H 15/479, F24H 15/486, F24H 15/493
C	F24D19/1039	4	{the system uses a heat pump}	F24D19/1039, F24H 15/00, F24H 15/10, F24H 15/104, F24H 15/108, F24H 15/112, F24H 15/116, F24H 15/12, F24H 15/124, F24H 15/128, F24H 15/132, F24H 15/136, F24H 15/14, F24H 15/144, F24H 15/148, F24H 15/152, F24H 15/156, F24H 15/16, F24H 15/164, F24H 15/168, F24H 15/172, F24H 15/174, F24H 15/175, F24H 15/176, F24H 15/18, F24H 15/184, F24H 15/196, F24H 15/20, F24H 15/204, F24H 15/208, F24H 15/212, F24H 15/215, F24H 15/219, F24H 15/223, F24H 15/225, F24H 15/227, F24H 15/231, F24H 15/232, F24H 15/235, F24H 15/238, F24H 15/242, F24H 15/246, F24H 15/248, F24H 15/25, F24H 15/254, F24H 15/258, F24H 15/262, F24H 15/265, F24H 15/269, F24H 15/273,

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C	F24D19/1042	4	{the system uses solar energy }	F24D19/1042, F24H 15/00, F24H 15/10, F24H 15/104, F24H 15/108, F24H 15/112, F24H 15/116, F24H 15/12, F24H 15/124, F24H 15/128, F24H 15/132, F24H 15/136, F24H 15/14, F24H 15/144, F24H 15/148, F24H 15/152, F24H 15/156, F24H 15/16, F24H 15/164, F24H 15/168, F24H 15/172, F24H 15/174, F24H 15/175, F24H 15/176, F24H 15/18, F24H 15/184, F24H 15/196, F24H 15/20, F24H 15/204, F24H 15/208, F24H 15/212, F24H 15/215, F24H 15/219, F24H 15/223, F24H 15/225, F24H 15/227, F24H 15/231, F24H 15/232, F24H 15/235, F24H 15/238, F24H 15/242, F24H 15/246, F24H 15/248, F24H 15/25, F24H 15/254, F24H 15/258, F24H 15/262, F24H 15/265, F24H 15/269, F24H 15/273, F24H 15/277, F24H 15/281, F24H 15/288, F24H 15/292, F24H 15/296, F24H 15/30, F24H 15/305, F24H 15/31, F24H 15/315, F24H 15/32, F24H 15/325, F24H 15/33, F24H 15/335, F24H 15/34, F24H 15/345, F24H 15/35, F24H 15/355, F24H 15/36, F24H 15/365, F24H 15/37, F24H 15/375, F24H 15/38, F24H 15/385, F24H 15/39, F24H 15/395,

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C	F24D19/1045	4	{the system uses a heat pump and solar energy}	F24D19/1045, F24H 15/00, F24H 15/10, F24H 15/104, F24H 15/108, F24H 15/112, F24H 15/116, F24H 15/12, F24H 15/124, F24H 15/128, F24H 15/132, F24H 15/136, F24H 15/14, F24H 15/144, F24H 15/148, F24H 15/152, F24H 15/156, F24H 15/16, F24H 15/164, F24H 15/168, F24H 15/172, F24H 15/174, F24H 15/175, F24H 15/176, F24H 15/18, F24H 15/184, F24H 15/196, F24H 15/20, F24H 15/204, F24H 15/208, F24H 15/212, F24H 15/215, F24H 15/219, F24H 15/223, F24H 15/225, F24H 15/227, F24H 15/231, F24H 15/232, F24H 15/235, F24H 15/238, F24H 15/242, F24H 15/246, F24H 15/248, F24H 15/25, F24H 15/254, F24H 15/258, F24H 15/262, F24H 15/265, F24H 15/269, F24H 15/273, F24H 15/277, F24H 15/281, F24H 15/288, F24H 15/292, F24H 15/296, F24H 15/30, F24H 15/305, F24H 15/31, F24H 15/315, F24H 15/32, F24H 15/325, F24H 15/33, F24H 15/335, F24H 15/34, F24H 15/345, F24H 15/35, F24H 15/355, F24H 15/36, F24H 15/365, F24H 15/37, F24H 15/375, F24H 15/38, F24H 15/385, F24H 15/39, F24H 15/395, F24H 15/40, F24H 15/407, F24H 15/414, F24H 15/421, F24H 15/429, F24H 15/436, F24H 15/443, F24H 15/45, F24H 15/457, F24H 15/464, F24H 15/479, F24H 15/486, F24H 15/493

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C	F24D19/1048	4	{Counting of energy consumption}	F24D19/1048, F24H 15/00, F24H 15/10, F24H 15/104, F24H 15/108, F24H 15/112, F24H 15/116, F24H 15/12, F24H 15/124, F24H 15/128, F24H 15/132, F24H 15/136, F24H 15/14, F24H 15/144, F24H 15/148, F24H 15/152, F24H 15/156, F24H 15/16, F24H 15/164, F24H 15/168, F24H 15/172, F24H 15/174, F24H 15/175, F24H 15/176, F24H 15/18, F24H 15/184, F24H 15/196, F24H 15/20, F24H 15/204, F24H 15/208, F24H 15/212, F24H 15/215, F24H 15/219, F24H 15/223, F24H 15/225, F24H 15/227, F24H 15/231, F24H 15/232, F24H 15/235, F24H 15/238, F24H 15/242, F24H 15/246, F24H 15/248, F24H 15/25, F24H 15/254, F24H 15/258, F24H 15/262, F24H 15/265, F24H 15/269, F24H 15/273, F24H 15/277, F24H 15/281, F24H 15/288, F24H 15/292, F24H 15/296, F24H 15/30, F24H 15/305, F24H 15/31, F24H 15/315, F24H 15/32, F24H 15/325, F24H 15/33, F24H 15/335, F24H 15/34, F24H 15/345, F24H 15/35, F24H 15/355, F24H 15/36, F24H 15/365, F24H 15/37, F24H 15/375, F24H 15/38, F24H 15/385, F24H 15/39, F24H 15/395, F24H 15/40, F24H 15/407, F24H 15/414, F24H 15/421, F24H 15/429, F24H 15/436, F24H 15/443, F24H 15/45, F24H 15/457, F24H 15/464, F24H 15/479, F24H 15/486, F24H 15/493
C	F24D19/1051	3	{for domestic hot water}	F24D19/1051, F24H 15/00, F24H 15/10, F24H 15/104, F24H 15/108, F24H 15/112, F24H 15/116, F24H 15/12, F24H 15/124, F24H 15/128, F24H 15/132, F24H 15/136, F24H 15/14, F24H 15/144, F24H 15/148, F24H 15/152, F24H 15/156, F24H 15/16, F24H 15/164, F24H 15/168, F24H 15/172, F24H 15/174, F24H 15/175, F24H 15/176, F24H 15/18,

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C	F24D19/1054	4	{the system uses a heat pump}	F24D19/1054, F24H 15/00, F24H 15/10, F24H 15/104, F24H 15/108, F24H 15/112, F24H 15/116, F24H 15/12, F24H 15/124, F24H 15/128, F24H 15/132, F24H 15/136, F24H 15/14, F24H 15/144, F24H 15/148, F24H 15/152, F24H 15/156, F24H 15/16, F24H 15/164, F24H 15/168, F24H 15/172, F24H 15/174, F24H 15/175, F24H 15/176, F24H 15/18, F24H 15/184, F24H 15/196, F24H 15/20, F24H 15/204, F24H 15/208, F24H 15/212, F24H 15/215, F24H 15/219, F24H 15/223, F24H 15/225, F24H 15/227, F24H 15/231, F24H 15/232, F24H 15/235, F24H 15/238, F24H 15/242, F24H 15/246, F24H 15/248, F24H 15/25, F24H 15/254, F24H 15/258, F24H 15/262, F24H 15/265, F24H 15/269, F24H 15/273,

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C	F24D19/1057	4	{the system uses solar energy }	F24D19/1057, F24H 15/00, F24H 15/10, F24H 15/104, F24H 15/108, F24H 15/112, F24H 15/116, F24H 15/12, F24H 15/124, F24H 15/128, F24H 15/132, F24H 15/136, F24H 15/14, F24H 15/144, F24H 15/148, F24H 15/152, F24H 15/156, F24H 15/16, F24H 15/164, F24H 15/168, F24H 15/172, F24H 15/174, F24H 15/175, F24H 15/176, F24H 15/18, F24H 15/184, F24H 15/196, F24H 15/20, F24H 15/204, F24H 15/208, F24H 15/212, F24H 15/215, F24H 15/219, F24H 15/223, F24H 15/225, F24H 15/227, F24H 15/231, F24H 15/232, F24H 15/235, F24H 15/238, F24H 15/242, F24H 15/246, F24H 15/248, F24H 15/25, F24H 15/254, F24H 15/258, F24H 15/262, F24H 15/265, F24H 15/269, F24H 15/273, F24H 15/277, F24H 15/281, F24H 15/288, F24H 15/292, F24H 15/296, F24H 15/30, F24H 15/305, F24H 15/31, F24H 15/315, F24H 15/32, F24H 15/325, F24H 15/33, F24H 15/335, F24H 15/34, F24H 15/345, F24H 15/35, F24H 15/355, F24H 15/36, F24H 15/365, F24H 15/37, F24H 15/375, F24H 15/38, F24H 15/385, F24H 15/39, F24H 15/395,

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				F24H 15/40, F24H 15/407, F24H 15/414, F24H 15/421, F24H 15/429, F24H 15/436, F24H 15/443, F24H 15/45, F24H 15/457, F24H 15/464, F24H 15/479, F24H 15/486, F24H 15/493
C	F24D19/106	4	{the system uses a heat pump and solar energy}	F24D19/106, F24H 15/00, F24H 15/10, F24H 15/104, F24H 15/108, F24H 15/112, F24H 15/116, F24H 15/12, F24H 15/124, F24H 15/128, F24H 15/132, F24H 15/136, F24H 15/14, F24H 15/144, F24H 15/148, F24H 15/152, F24H 15/156, F24H 15/16, F24H 15/164, F24H 15/168, F24H 15/172, F24H 15/174, F24H 15/175, F24H 15/176, F24H 15/18, F24H 15/184, F24H 15/196, F24H 15/20, F24H 15/204, F24H 15/208, F24H 15/212, F24H 15/215, F24H 15/219, F24H 15/223, F24H 15/225, F24H 15/227, F24H 15/231, F24H 15/232, F24H 15/235, F24H 15/238, F24H 15/242, F24H 15/246, F24H 15/248, F24H 15/25, F24H 15/254, F24H 15/258, F24H 15/262, F24H 15/265, F24H 15/269, F24H 15/273, F24H 15/277, F24H 15/281, F24H 15/288, F24H 15/292, F24H 15/296, F24H 15/30, F24H 15/305, F24H 15/31, F24H 15/315, F24H 15/32, F24H 15/325, F24H 15/33, F24H 15/335, F24H 15/34, F24H 15/345, F24H 15/35, F24H 15/355, F24H 15/36, F24H 15/365, F24H 15/37, F24H 15/375, F24H 15/38, F24H 15/385, F24H 15/39, F24H 15/395, F24H 15/40, F24H 15/407, F24H 15/414, F24H 15/421, F24H 15/429, F24H 15/436, F24H 15/443, F24H 15/45, F24H 15/457, F24H 15/464, F24H 15/479, F24H 15/486, F24H 15/493

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C	F24D19/1063	4	{counting of energy consumption}	F24D19/1063, F24H 15/00, F24H 15/10, F24H 15/104, F24H 15/108, F24H 15/112, F24H 15/116, F24H 15/12, F24H 15/124, F24H 15/128, F24H 15/132, F24H 15/136, F24H 15/14, F24H 15/144, F24H 15/148, F24H 15/152, F24H 15/156, F24H 15/16, F24H 15/164, F24H 15/168, F24H 15/172, F24H 15/174, F24H 15/175, F24H 15/176, F24H 15/18, F24H 15/184, F24H 15/196, F24H 15/20, F24H 15/204, F24H 15/208, F24H 15/212, F24H 15/215, F24H 15/219, F24H 15/223, F24H 15/225, F24H 15/227, F24H 15/231, F24H 15/232, F24H 15/235, F24H 15/238, F24H 15/242, F24H 15/246, F24H 15/248, F24H 15/25, F24H 15/254, F24H 15/258, F24H 15/262, F24H 15/265, F24H 15/269, F24H 15/273, F24H 15/277, F24H 15/281, F24H 15/288, F24H 15/292, F24H 15/296, F24H 15/30, F24H 15/305, F24H 15/31, F24H 15/315, F24H 15/32, F24H 15/325, F24H 15/33, F24H 15/335, F24H 15/34, F24H 15/345, F24H 15/35, F24H 15/355, F24H 15/36, F24H 15/365, F24H 15/37, F24H 15/375, F24H 15/38, F24H 15/385, F24H 15/39, F24H 15/395, F24H 15/40, F24H 15/407, F24H 15/414, F24H 15/421, F24H 15/429, F24H 15/436, F24H 15/443, F24H 15/45, F24H 15/457, F24H 15/464, F24H 15/479, F24H 15/486, F24H 15/493
C	F24D19/1066	3	{for the combination of central heating and domestic hot water}	F24D19/1066, F24H 15/00, F24H 15/10, F24H 15/104, F24H 15/108, F24H 15/112, F24H 15/116, F24H 15/12, F24H 15/124, F24H 15/128, F24H 15/132, F24H 15/136, F24H 15/14, F24H 15/144, F24H 15/148, F24H 15/152, F24H 15/156, F24H 15/16, F24H 15/164, F24H 15/168, F24H 15/172, F24H 15/174, F24H 15/175, F24H 15/176, F24H 15/18,

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				F24H 15/184, F24H 15/196, F24H 15/20, F24H 15/204, F24H 15/208, F24H 15/212, F24H 15/215, F24H 15/219, F24H 15/223, F24H 15/225, F24H 15/227, F24H 15/231, F24H 15/232, F24H 15/235, F24H 15/238, F24H 15/242, F24H 15/246, F24H 15/248, F24H 15/25, F24H 15/254, F24H 15/258, F24H 15/262, F24H 15/265, F24H 15/269, F24H 15/273, F24H 15/277, F24H 15/281, F24H 15/288, F24H 15/292, F24H 15/296, F24H 15/30, F24H 15/305, F24H 15/31, F24H 15/315, F24H 15/32, F24H 15/325, F24H 15/33, F24H 15/335, F24H 15/34, F24H 15/345, F24H 15/35, F24H 15/355, F24H 15/36, F24H 15/365, F24H 15/37, F24H 15/375, F24H 15/38, F24H 15/385, F24H 15/39, F24H 15/395, F24H 15/40, F24H 15/407, F24H 15/414, F24H 15/421, F24H 15/429, F24H 15/436, F24H 15/443, F24H 15/45, F24H 15/457, F24H 15/464, F24H 15/479, F24H 15/486, F24H 15/493
C	F24D19/1069	4	{regulation in function of the temperature of the domestic hot water }	F24D19/1069, F24H 15/00, F24H 15/10, F24H 15/104, F24H 15/108, F24H 15/112, F24H 15/116, F24H 15/12, F24H 15/124, F24H 15/128, F24H 15/132, F24H 15/136, F24H 15/14, F24H 15/144, F24H 15/148, F24H 15/152, F24H 15/156, F24H 15/16, F24H 15/164, F24H 15/168, F24H 15/172, F24H 15/174, F24H 15/175, F24H 15/176, F24H 15/18, F24H 15/184, F24H 15/196, F24H 15/20, F24H 15/204, F24H 15/208, F24H 15/212, F24H 15/215, F24H 15/219, F24H 15/223, F24H 15/225, F24H 15/227, F24H 15/231, F24H 15/232, F24H 15/235, F24H 15/238, F24H 15/242, F24H 15/246, F24H 15/248, F24H 15/25, F24H 15/254, F24H 15/258, F24H 15/262, F24H 15/265, F24H 15/269, F24H 15/273,

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				F24H 15/277, F24H 15/281, F24H 15/288, F24H 15/292, F24H 15/296, F24H 15/30, F24H 15/305, F24H 15/31, F24H 15/315, F24H 15/32, F24H 15/325, F24H 15/33, F24H 15/335, F24H 15/34, F24H 15/345, F24H 15/35, F24H 15/355, F24H 15/36, F24H 15/365, F24H 15/37, F24H 15/375, F24H 15/38, F24H 15/385, F24H 15/39, F24H 15/395, F24H 15/40, F24H 15/407, F24H 15/414, F24H 15/421, F24H 15/429, F24H 15/436, F24H 15/443, F24H 15/45, F24H 15/457, F24H 15/464, F24H 15/479, F24H 15/486, F24H 15/493
C	F24D19/1072	4	{the system uses a heat pump }	F24D19/1072, F24H 15/00, F24H 15/10, F24H 15/104, F24H 15/108, F24H 15/112, F24H 15/116, F24H 15/12, F24H 15/124, F24H 15/128, F24H 15/132, F24H 15/136, F24H 15/14, F24H 15/144, F24H 15/148, F24H 15/152, F24H 15/156, F24H 15/16, F24H 15/164, F24H 15/168, F24H 15/172, F24H 15/174, F24H 15/175, F24H 15/176, F24H 15/18, F24H 15/184, F24H 15/196, F24H 15/20, F24H 15/204, F24H 15/208, F24H 15/212, F24H 15/215, F24H 15/219, F24H 15/223, F24H 15/225, F24H 15/227, F24H 15/231, F24H 15/232, F24H 15/235, F24H 15/238, F24H 15/242, F24H 15/246, F24H 15/248, F24H 15/25, F24H 15/254, F24H 15/258, F24H 15/262, F24H 15/265, F24H 15/269, F24H 15/273, F24H 15/277, F24H 15/281, F24H 15/288, F24H 15/292, F24H 15/296, F24H 15/30, F24H 15/305, F24H 15/31, F24H 15/315, F24H 15/32, F24H 15/325, F24H 15/33, F24H 15/335, F24H 15/34, F24H 15/345, F24H 15/35, F24H 15/355, F24H 15/36, F24H 15/365, F24H 15/37, F24H 15/375, F24H 15/38, F24H 15/385, F24H 15/39, F24H 15/395,

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C	F24D19/1075	4	{the system uses solar energy }	F24D19/1075, F24H 15/00, F24H 15/10, F24H 15/104, F24H 15/108, F24H 15/112, F24H 15/116, F24H 15/12, F24H 15/124, F24H 15/128, F24H 15/132, F24H 15/136, F24H 15/14, F24H 15/144, F24H 15/148, F24H 15/152, F24H 15/156, F24H 15/16, F24H 15/164, F24H 15/168, F24H 15/172, F24H 15/174, F24H 15/175, F24H 15/176, F24H 15/18, F24H 15/184, F24H 15/196, F24H 15/20, F24H 15/204, F24H 15/208, F24H 15/212, F24H 15/215, F24H 15/219, F24H 15/223, F24H 15/225, F24H 15/227, F24H 15/231, F24H 15/232, F24H 15/235, F24H 15/238, F24H 15/242, F24H 15/246, F24H 15/248, F24H 15/25, F24H 15/254, F24H 15/258, F24H 15/262, F24H 15/265, F24H 15/269, F24H 15/273, F24H 15/277, F24H 15/281, F24H 15/288, F24H 15/292, F24H 15/296, F24H 15/30, F24H 15/305, F24H 15/31, F24H 15/315, F24H 15/32, F24H 15/325, F24H 15/33, F24H 15/335, F24H 15/34, F24H 15/345, F24H 15/35, F24H 15/355, F24H 15/36, F24H 15/365, F24H 15/37, F24H 15/375, F24H 15/38, F24H 15/385, F24H 15/39, F24H 15/395, F24H 15/40, F24H 15/407, F24H 15/414, F24H 15/421, F24H 15/429, F24H 15/436, F24H 15/443, F24H 15/45, F24H 15/457, F24H 15/464, F24H 15/479, F24H 15/486, F24H 15/493

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C	F24D19/1078	4	{the system uses a heat pump and solar energy}	F24D19/1078, F24H 15/00, F24H 15/10, F24H 15/104, F24H 15/108, F24H 15/112, F24H 15/116, F24H 15/12, F24H 15/124, F24H 15/128, F24H 15/132, F24H 15/136, F24H 15/14, F24H 15/144, F24H 15/148, F24H 15/152, F24H 15/156, F24H 15/16, F24H 15/164, F24H 15/168, F24H 15/172, F24H 15/174, F24H 15/175, F24H 15/176, F24H 15/18, F24H 15/184, F24H 15/196, F24H 15/20, F24H 15/204, F24H 15/208, F24H 15/212, F24H 15/215, F24H 15/219, F24H 15/223, F24H 15/225, F24H 15/227, F24H 15/231, F24H 15/232, F24H 15/235, F24H 15/238, F24H 15/242, F24H 15/246, F24H 15/248, F24H 15/25, F24H 15/254, F24H 15/258, F24H 15/262, F24H 15/265, F24H 15/269, F24H 15/273, F24H 15/277, F24H 15/281, F24H 15/288, F24H 15/292, F24H 15/296, F24H 15/30, F24H 15/305, F24H 15/31, F24H 15/315, F24H 15/32, F24H 15/325, F24H 15/33, F24H 15/335, F24H 15/34, F24H 15/345, F24H 15/35, F24H 15/355, F24H 15/36, F24H 15/365, F24H 15/37, F24H 15/375, F24H 15/38, F24H 15/385, F24H 15/39, F24H 15/395, F24H 15/40, F24H 15/407, F24H 15/414, F24H 15/421, F24H 15/429, F24H 15/436, F24H 15/443, F24H 15/45, F24H 15/457, F24H 15/464, F24H 15/479, F24H 15/486, F24H 15/493
C	F24D19/1081	4	{counting of energy consumption}	F24D19/1081, F24H 15/00, F24H 15/10, F24H 15/104, F24H 15/108, F24H 15/112, F24H 15/116, F24H 15/12, F24H 15/124, F24H 15/128, F24H 15/132, F24H 15/136, F24H 15/14, F24H 15/144, F24H 15/148, F24H 15/152, F24H 15/156, F24H 15/16, F24H 15/164, F24H 15/168, F24H 15/172, F24H 15/174, F24H 15/175, F24H 15/176, F24H 15/18,

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C	F24D19/1084	2	{for air heating systems}	F24D19/1084, F24H 15/00, F24H 15/10, F24H 15/104, F24H 15/108, F24H 15/112, F24H 15/116, F24H 15/12, F24H 15/124, F24H 15/128, F24H 15/132, F24H 15/136, F24H 15/14, F24H 15/144, F24H 15/148, F24H 15/152, F24H 15/156, F24H 15/16, F24H 15/164, F24H 15/168, F24H 15/172, F24H 15/174, F24H 15/175, F24H 15/176, F24H 15/18, F24H 15/184, F24H 15/196, F24H 15/20, F24H 15/204, F24H 15/208, F24H 15/212, F24H 15/215, F24H 15/219, F24H 15/223, F24H 15/225, F24H 15/227, F24H 15/231, F24H 15/232, F24H 15/235, F24H 15/238, F24H 15/242, F24H 15/246, F24H 15/248, F24H 15/25, F24H 15/254, F24H 15/258, F24H 15/262, F24H 15/265, F24H 15/269, F24H 15/273,

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				F24H 15/277, F24H 15/281, F24H 15/288, F24H 15/292, F24H 15/296, F24H 15/30, F24H 15/305, F24H 15/31, F24H 15/315, F24H 15/32, F24H 15/325, F24H 15/33, F24H 15/335, F24H 15/34, F24H 15/345, F24H 15/35, F24H 15/355, F24H 15/36, F24H 15/365, F24H 15/37, F24H 15/375, F24H 15/38, F24H 15/385, F24H 15/39, F24H 15/395, F24H 15/40, F24H 15/407, F24H 15/414, F24H 15/421, F24H 15/429, F24H 15/436, F24H 15/443, F24H 15/45, F24H 15/457, F24H 15/464, F24H 15/479, F24H 15/486, F24H 15/493
C	F24D19/1087	3	{system using a heat pump}	F24D19/1087, F24H 15/00, F24H 15/10, F24H 15/104, F24H 15/108, F24H 15/112, F24H 15/116, F24H 15/12, F24H 15/124, F24H 15/128, F24H 15/132, F24H 15/136, F24H 15/14, F24H 15/144, F24H 15/148, F24H 15/152, F24H 15/156, F24H 15/16, F24H 15/164, F24H 15/168, F24H 15/172, F24H 15/174, F24H 15/175, F24H 15/176, F24H 15/18, F24H 15/184, F24H 15/196, F24H 15/20, F24H 15/204, F24H 15/208, F24H 15/212, F24H 15/215, F24H 15/219, F24H 15/223, F24H 15/225, F24H 15/227, F24H 15/231, F24H 15/232, F24H 15/235, F24H 15/238, F24H 15/242, F24H 15/246, F24H 15/248, F24H 15/25, F24H 15/254, F24H 15/258, F24H 15/262, F24H 15/265, F24H 15/269, F24H 15/273, F24H 15/277, F24H 15/281, F24H 15/288, F24H 15/292, F24H 15/296, F24H 15/30, F24H 15/305, F24H 15/31, F24H 15/315, F24H 15/32, F24H 15/325, F24H 15/33, F24H 15/335, F24H 15/34, F24H 15/345, F24H 15/35, F24H 15/355, F24H 15/36, F24H 15/365, F24H 15/37, F24H 15/375, F24H 15/38, F24H 15/385, F24H 15/39, F24H 15/395,

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				F24H 15/40, F24H 15/407, F24H 15/414, F24H 15/421, F24H 15/429, F24H 15/436, F24H 15/443, F24H 15/45, F24H 15/457, F24H 15/464, F24H 15/479, F24H 15/486, F24H 15/493
C	F24D19/109	3	{system using solar energy}	F24D19/109, F24H 15/00, F24H 15/10, F24H 15/104, F24H 15/108, F24H 15/112, F24H 15/116, F24H 15/12, F24H 15/124, F24H 15/128, F24H 15/132, F24H 15/136, F24H 15/14, F24H 15/144, F24H 15/148, F24H 15/152, F24H 15/156, F24H 15/16, F24H 15/164, F24H 15/168, F24H 15/172, F24H 15/174, F24H 15/175, F24H 15/176, F24H 15/18, F24H 15/184, F24H 15/196, F24H 15/20, F24H 15/204, F24H 15/208, F24H 15/212, F24H 15/215, F24H 15/219, F24H 15/223, F24H 15/225, F24H 15/227, F24H 15/231, F24H 15/232, F24H 15/235, F24H 15/238, F24H 15/242, F24H 15/246, F24H 15/248, F24H 15/25, F24H 15/254, F24H 15/258, F24H 15/262, F24H 15/265, F24H 15/269, F24H 15/273, F24H 15/277, F24H 15/281, F24H 15/288, F24H 15/292, F24H 15/296, F24H 15/30, F24H 15/305, F24H 15/31, F24H 15/315, F24H 15/32, F24H 15/325, F24H 15/33, F24H 15/335, F24H 15/34, F24H 15/345, F24H 15/35, F24H 15/355, F24H 15/36, F24H 15/365, F24H 15/37, F24H 15/375, F24H 15/38, F24H 15/385, F24H 15/39, F24H 15/395, F24H 15/40, F24H 15/407, F24H 15/414, F24H 15/421, F24H 15/429, F24H 15/436, F24H 15/443, F24H 15/45, F24H 15/457, F24H 15/464, F24H 15/479, F24H 15/486, F24H 15/493

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C	F24D19/1093	3	{system using a heat pump and solar energy}	F24D19/1093, F24H 15/00, F24H 15/10, F24H 15/104, F24H 15/108, F24H 15/112, F24H 15/116, F24H 15/12, F24H 15/124, F24H 15/128, F24H 15/132, F24H 15/136, F24H 15/14, F24H 15/144, F24H 15/148, F24H 15/152, F24H 15/156, F24H 15/16, F24H 15/164, F24H 15/168, F24H 15/172, F24H 15/174, F24H 15/175, F24H 15/176, F24H 15/18, F24H 15/184, F24H 15/196, F24H 15/20, F24H 15/204, F24H 15/208, F24H 15/212, F24H 15/215, F24H 15/219, F24H 15/223, F24H 15/225, F24H 15/227, F24H 15/231, F24H 15/232, F24H 15/235, F24H 15/238, F24H 15/242, F24H 15/246, F24H 15/248, F24H 15/25, F24H 15/254, F24H 15/258, F24H 15/262, F24H 15/265, F24H 15/269, F24H 15/273, F24H 15/277, F24H 15/281, F24H 15/288, F24H 15/292, F24H 15/296, F24H 15/30, F24H 15/305, F24H 15/31, F24H 15/315, F24H 15/32, F24H 15/325, F24H 15/33, F24H 15/335, F24H 15/34, F24H 15/345, F24H 15/35, F24H 15/355, F24H 15/36, F24H 15/365, F24H 15/37, F24H 15/375, F24H 15/38, F24H 15/385, F24H 15/39, F24H 15/395, F24H 15/40, F24H 15/407, F24H 15/414, F24H 15/421, F24H 15/429, F24H 15/436, F24H 15/443, F24H 15/45, F24H 15/457, F24H 15/464, F24H 15/479, F24H 15/486, F24H 15/493
C	F24D19/1096	2	{for electric heating systems}	F24D19/1096, F24H 15/00, F24H 15/10, F24H 15/104, F24H 15/108, F24H 15/112, F24H 15/116, F24H 15/12, F24H 15/124, F24H 15/128, F24H 15/132, F24H 15/136, F24H 15/14, F24H 15/144, F24H 15/148, F24H 15/152, F24H 15/156, F24H 15/16, F24H 15/164, F24H 15/168, F24H 15/172, F24H 15/174, F24H 15/175, F24H 15/176, F24H 15/18,

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				F24H 15/184, F24H 15/196, F24H 15/20, F24H 15/204, F24H 15/208, F24H 15/212, F24H 15/215, F24H 15/219, F24H 15/223, F24H 15/225, F24H 15/227, F24H 15/231, F24H 15/232, F24H 15/235, F24H 15/238, F24H 15/242, F24H 15/246, F24H 15/248, F24H 15/25, F24H 15/254, F24H 15/258, F24H 15/262, F24H 15/265, F24H 15/269, F24H 15/273, F24H 15/277, F24H 15/281, F24H 15/288, F24H 15/292, F24H 15/296, F24H 15/30, F24H 15/305, F24H 15/31, F24H 15/315, F24H 15/32, F24H 15/325, F24H 15/33, F24H 15/335, F24H 15/34, F24H 15/345, F24H 15/35, F24H 15/355, F24H 15/36, F24H 15/365, F24H 15/37, F24H 15/375, F24H 15/38, F24H 15/385, F24H 15/39, F24H 15/395, F24H 15/40, F24H 15/407, F24H 15/414, F24H 15/421, F24H 15/429, F24H 15/436, F24H 15/443, F24H 15/45, F24H 15/457, F24H 15/464, F24H 15/479, F24H 15/486, F24H 15/493

SUBCLASS F24H - FLUID HEATERS, e.g. WATER OR AIR HEATERS, HAVING HEAT GENERATING MEANS, IN GENERAL

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M	F24H	Subclass	FLUID HEATERS, e.g. WATER OR AIR HEATERS, HAVING HEAT-GENERATING MEANS, e.g. HEAT PUMPS, IN GENERAL (steam generation F22)	
M	F24H 1/00	0	Water heaters, e.g. boilers, continuous-flow heaters or water-storage heaters (steam boilers F22B)	

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D	F24H 1/0081	2	{for bath tubs}	<Administrative transfer to F24H 1/54>
M	F24H 1/10	1	Continuous-flow heaters, i.e. heaters in which heat is generated only while the water is flowing, e.g. with direct contact of the water with the heating medium	
M	F24H 1/18	1	Water-storage heaters	
M	F24H 1/181	2	{Construction of the tank}	
M	F24H 1/182	3	{Insulation}	
M	F24H 1/183	3	{Inner linings}	
M	F24H 1/22	1	Water heaters other than continuous-flow or water-storage heaters, e.g. water heaters for central heating	
M	F24H 1/24	2	with water mantle surrounding the combustion chamber or chambers	
M	F24H 1/34	2	with water chamber arranged adjacent to the combustion chamber or chambers, e.g. above or at side	
M	F24H 1/38	2	with water contained in separate elements, e.g. radiator-type element	
M	F24H 1/40	2	with water tube or tubes	
M	F24H 1/44	2	with combinations of two or more of the types covered by groups F24H 1/24 - F24H 1/40 {, e.g. boilers having a combination of features covered by F24H 1/24 - F24H 1/40}	
U	F24H 1/526	3	{Pipes in pipe heat exchangers for sanitary water}	
N	F24H 1/54	1	Water heaters for bathtubs or pools; Water heaters for reheating the water in bathtubs or pools	
M	F24H 3/00	0	Air heaters	
M	F24H 3/006	1	{using fluid fuel}	
M	F24H 3/008	1	{using solid fuel}	
M	F24H 3/02	1	with forced circulation	
M	F24H 3/025	2	{using fluid fuel}	
M	F24H 3/027	2	{using solid fuel}	
M	F24H 3/0488	3	{using fluid fuel}	
M	F24H 3/0494	3	{using solid fuel}	
M	F24H 3/065	3	{using fluid fuel}	
M	F24H 3/067	3	{using solid fuel}	
M	F24H 3/087	4	{using fluid fuel}	
M	F24H 3/088	4	{using solid fuel}	
M	F24H 3/105	4	{using fluid fuel}	
M	F24H 3/107	4	{using solid fuel}	
M	F24H 4/00	0	Fluid heaters characterised by the use of heat pumps	

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M	F24H 4/02	1	Water heaters	
M	F24H 4/06	1	Air heaters	
M	F24H 6/00	0	Combined water and air heaters	
M	F24H 7/00	0	Storage heaters, i.e. heaters in which the energy is stored as heat in masses for subsequent release	
M	F24H 7/002	1	{using electrical energy supply}	
M	F24H 7/005	1	{using fluid fuel}	
M	F24H 7/007	1	{using solid fuel}	
M	F24H 7/02	1	the released heat being conveyed to a transfer fluid	
M	F24H 7/0208	2	{ using electrical energy supply }	
M	F24H 7/0233	3	{the transfer fluid being water}	
M	F24H 7/025	2	{using fluid fuel}	
M	F24H 7/0266	3	{the transfer fluid being water}	
M	F24H 7/0275	2	{using solid fuel}	
M	F24H 7/0291	3	{the transfer fluid being water}	
M	F24H 7/0408	3	{using electrical energy supply}	
M	F24H 7/0433	4	{the transfer medium being water}	
M	F24H 7/045	3	{using fluid fuel}	
M	F24H 7/0466	4	{the transfer fluid being water}	
M	F24H 7/0475	3	{using solid fuel}	
M	F24H 7/0491	4	{the transfer fluid being water}	
M	F24H 8/00	0	Fluid heaters characterised by means for extracting latent heat from flue gases by means of condensation	
D	F24H 9/0047	2	{Protections against galvanic corrosion, e.g. cathodic protections, electrolytic protections}	<Administrative transfer to F24H 9/45>
M	F24H 9/12	1	Arrangements for connecting heaters to circulation pipes	
D	F24H 9/122	2	{for water heaters}	<Administrative transfer to F24H 9/13>
D	F24H 9/124	3	{storage heaters}	<Administrative transfer to F24H 9/133>
D	F24H 9/126	4	{Arrangement of inlet valves used therewith (valves per se F16K)}	<Administrative transfer to F24H 9/136>
D	F24H 9/128	3	{continuous flow heaters}	<Administrative transfer to F24H 9/139>
N	F24H 9/13	2	for water heaters	
N	F24H 9/133	3	{Storage heaters}	
N	F24H 9/136	4	{Arrangement of inlet valves used therewith}	
N	F24H 9/139	3	{Continuous flow heaters}	
M	F24H 9/14	1	Arrangements for connecting different sections, e.g. in water	

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			heaters (arrangements for connecting heaters to circulation pipes F24H 9/12)	
M	F24H 9/16	1	Arrangements for water drainage	
D	F24H 9/165	2	{Devices for retaining leaking fluid from heaters}	<Administrative transfer to F24H 9/17>
N	F24H 9/17	2	Means for retaining water leaked from heaters	
M	F24H 9/18	1	Arrangement or mounting of grates or heating means	
C	F24H 9/1809	2	for water heaters	F24H 9/1809, F24H 9/1832
M	F24H 9/1818	3	Arrangement or mounting of electric heating means	
M	F24H 9/1827	4	{Positive temperature coefficient [PTC] resistor}	
N	F24H 9/1832	3	Arrangement or mounting of combustion heating means, e.g. grates or burners	
M	F24H 9/1836	4	using fluid fuel	
M	F24H 9/1845	4	using solid fuel	
C	F24H 9/1854	2	for air heaters	F24H 9/1854, F24H 9/1877
M	F24H 9/1863	3	Arrangement or mounting of electric heating means	
M	F24H 9/1872	4	{PTC}	
N	F24H 9/1877	3	Arrangement or mounting of combustion heating means, e.g. grates or burners	
M	F24H 9/1881	4	using fluid fuel	
M	F24H 9/189	4	using solid fuel	
C	F24H 9/20	1	Arrangement or mounting of control or safety devices	F24H 9/20, F24H 9/25, F24H 9/28, F24H 15/00, F24H 15/10, F24H 15/104, F24H 15/108, F24H 15/112, F24H 15/116, F24H 15/12, F24H 15/124, F24H 15/128, F24H 15/132, F24H 15/136, F24H 15/14, F24H 15/144, F24H 15/148, F24H 15/152, F24H 15/156, F24H 15/16, F24H 15/164, F24H 15/168, F24H 15/172, F24H 15/174, F24H 15/175, F24H 15/176, F24H 15/18, F24H 15/184, F24H 15/196, F24H 15/20, F24H 15/204, F24H 15/208, F24H 15/212, F24H 15/215, F24H 15/219, F24H 15/223, F24H 15/225, F24H 15/227, F24H 15/231, F24H 15/232, F24H 15/235, F24H 15/238, F24H 15/242, F24H 15/246, F24H 15/248, F24H 15/25, F24H 15/254, F24H 15/258, F24H 15/262, F24H 15/265, F24H 15/269,

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				F24H 15/273, F24H 15/277, F24H 15/281, F24H 15/288, F24H 15/292, F24H 15/296, F24H 15/30, F24H 15/305, F24H 15/31, F24H 15/315, F24H 15/32, F24H 15/325, F24H 15/33, F24H 15/335, F24H 15/34, F24H 15/345, F24H 15/35, F24H 15/355, F24H 15/36, F24H 15/365, F24H 15/37, F24H 15/375, F24H 15/38, F24H 15/385, F24H 15/39, F24H 15/395, F24H 15/40, F24H 15/407, F24H 15/414, F24H 15/421, F24H 15/429, F24H 15/436, F24H 15/443, F24H 15/45, F24H 15/457, F24H 15/464, F24H 15/479, F24H 15/486, F24H 15/493
C	F24H 9/2007	2	{for water heaters}	F24H 9/2007, F24H 9/25, F24H 9/28, F24H 15/00, F24H 15/10, F24H 15/104, F24H 15/108, F24H 15/112, F24H 15/116, F24H 15/12, F24H 15/124, F24H 15/128, F24H 15/132, F24H 15/136, F24H 15/14, F24H 15/144, F24H 15/148, F24H 15/152, F24H 15/156, F24H 15/16, F24H 15/164, F24H 15/168, F24H 15/172, F24H 15/174, F24H 15/175, F24H 15/176, F24H 15/18, F24H 15/184, F24H 15/196, F24H 15/20, F24H 15/204, F24H 15/208, F24H 15/212, F24H 15/215, F24H 15/219, F24H 15/223, F24H 15/225, F24H 15/227, F24H 15/231, F24H 15/232, F24H 15/235, F24H 15/238, F24H 15/242, F24H 15/246, F24H 15/248, F24H 15/25, F24H 15/254, F24H 15/258, F24H 15/262, F24H 15/265, F24H 15/269, F24H 15/273, F24H 15/277, F24H 15/281, F24H 15/288, F24H 15/292, F24H 15/296, F24H 15/30, F24H 15/305, F24H 15/31, F24H 15/315, F24H 15/32, F24H 15/325, F24H 15/33, F24H 15/335, F24H 15/34, F24H 15/345, F24H 15/35, F24H 15/355, F24H 15/36, F24H 15/365, F24H 15/37, F24H 15/375, F24H 15/38, F24H 15/385, F24H 15/39, F24H 15/395, F24H 15/40, F24H 15/407, F24H

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				15/414, F24H 15/421, F24H 15/429, F24H 15/436, F24H 15/443, F24H 15/45, F24H 15/457, F24H 15/464, F24H 15/479, F24H 15/486, F24H 15/493
C	F24H 9/2014	3	{using electrical energy supply}	F24H 9/2014, F24H 9/25, F24H 9/28, F24H 15/00, F24H 15/10, F24H 15/104, F24H 15/108, F24H 15/112, F24H 15/116, F24H 15/12, F24H 15/124, F24H 15/128, F24H 15/132, F24H 15/136, F24H 15/14, F24H 15/144, F24H 15/148, F24H 15/152, F24H 15/156, F24H 15/16, F24H 15/164, F24H 15/168, F24H 15/172, F24H 15/174, F24H 15/175, F24H 15/176, F24H 15/18, F24H 15/184, F24H 15/196, F24H 15/20, F24H 15/204, F24H 15/208, F24H 15/212, F24H 15/215, F24H 15/219, F24H 15/223, F24H 15/225, F24H 15/227, F24H 15/231, F24H 15/232, F24H 15/235, F24H 15/238, F24H 15/242, F24H 15/246, F24H 15/248, F24H 15/25, F24H 15/254, F24H 15/258, F24H 15/262, F24H 15/265, F24H 15/269, F24H 15/273, F24H 15/277, F24H 15/281, F24H 15/288, F24H 15/292, F24H 15/296, F24H 15/30, F24H 15/305, F24H 15/31, F24H 15/315, F24H 15/32, F24H 15/325, F24H 15/33, F24H 15/335, F24H 15/34, F24H 15/345, F24H 15/35, F24H 15/355, F24H 15/36, F24H 15/365, F24H 15/37, F24H 15/375, F24H 15/38, F24H 15/385, F24H 15/39, F24H 15/395, F24H 15/40, F24H 15/407, F24H 15/414, F24H 15/421, F24H 15/429, F24H 15/436, F24H 15/443, F24H 15/45, F24H 15/457, F24H 15/464, F24H 15/479, F24H 15/486, F24H 15/493
C	F24H 9/2021	4	{Storage heaters}	F24H 9/2021, F24H 9/25, F24H 9/28, F24H 15/00, F24H 15/10, F24H 15/104, F24H 15/108, F24H 15/112, F24H 15/116, F24H 15/12, F24H 15/124, F24H 15/128, F24H 15/132, F24H 15/136, F24H 15/14, F24H 15/144,

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				F24H 15/148, F24H 15/152, F24H 15/156, F24H 15/16, F24H 15/164, F24H 15/168, F24H 15/172, F24H 15/174, F24H 15/175, F24H 15/176, F24H 15/18, F24H 15/184, F24H 15/196, F24H 15/20, F24H 15/204, F24H 15/208, F24H 15/212, F24H 15/215, F24H 15/219, F24H 15/223, F24H 15/225, F24H 15/227, F24H 15/231, F24H 15/232, F24H 15/235, F24H 15/238, F24H 15/242, F24H 15/246, F24H 15/248, F24H 15/25, F24H 15/254, F24H 15/258, F24H 15/262, F24H 15/265, F24H 15/269, F24H 15/273, F24H 15/277, F24H 15/281, F24H 15/288, F24H 15/292, F24H 15/296, F24H 15/30, F24H 15/305, F24H 15/31, F24H 15/315, F24H 15/32, F24H 15/325, F24H 15/33, F24H 15/335, F24H 15/34, F24H 15/345, F24H 15/35, F24H 15/355, F24H 15/36, F24H 15/365, F24H 15/37, F24H 15/375, F24H 15/38, F24H 15/385, F24H 15/39, F24H 15/395, F24H 15/40, F24H 15/407, F24H 15/414, F24H 15/421, F24H 15/429, F24H 15/436, F24H 15/443, F24H 15/45, F24H 15/457, F24H 15/464, F24H 15/479, F24H 15/486, F24H 15/493
C	F24H 9/2028	4	{Continuous-flow heaters}	F24H 9/2028, F24H 9/25, F24H 9/28, F24H 15/00, F24H 15/10, F24H 15/104, F24H 15/108, F24H 15/112, F24H 15/116, F24H 15/12, F24H 15/124, F24H 15/128, F24H 15/132, F24H 15/136, F24H 15/14, F24H 15/144, F24H 15/148, F24H 15/152, F24H 15/156, F24H 15/16, F24H 15/164, F24H 15/168, F24H 15/172, F24H 15/174, F24H 15/175, F24H 15/176, F24H 15/18, F24H 15/184, F24H 15/196, F24H 15/20, F24H 15/204, F24H 15/208, F24H 15/212, F24H 15/215, F24H 15/219, F24H 15/223, F24H 15/225, F24H 15/227, F24H 15/231, F24H 15/232, F24H 15/235, F24H 15/238, F24H 15/242, F24H

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<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title</u> “CPC only” text should normally be enclosed in {curly brackets}**	<u>Transferred to#</u>
				15/246, F24H 15/248, F24H 15/25, F24H 15/254, F24H 15/258, F24H 15/262, F24H 15/265, F24H 15/269, F24H 15/273, F24H 15/277, F24H 15/281, F24H 15/288, F24H 15/292, F24H 15/296, F24H 15/30, F24H 15/305, F24H 15/31, F24H 15/315, F24H 15/32, F24H 15/325, F24H 15/33, F24H 15/335, F24H 15/34, F24H 15/345, F24H 15/35, F24H 15/355, F24H 15/36, F24H 15/365, F24H 15/37, F24H 15/375, F24H 15/38, F24H 15/385, F24H 15/39, F24H 15/395, F24H 15/40, F24H 15/407, F24H 15/414, F24H 15/421, F24H 15/429, F24H 15/436, F24H 15/443, F24H 15/45, F24H 15/457, F24H 15/464, F24H 15/479, F24H 15/486, F24H 15/493
C	F24H 9/2035	3	{using fluid fuel}	F24H 9/2035, F24H 9/25, F24H 9/28, F24H 15/00, F24H 15/10, F24H 15/104, F24H 15/108, F24H 15/112, F24H 15/116, F24H 15/12, F24H 15/124, F24H 15/128, F24H 15/132, F24H 15/136, F24H 15/14, F24H 15/144, F24H 15/148, F24H 15/152, F24H 15/156, F24H 15/16, F24H 15/164, F24H 15/168, F24H 15/172, F24H 15/174, F24H 15/175, F24H 15/176, F24H 15/18, F24H 15/184, F24H 15/196, F24H 15/20, F24H 15/204, F24H 15/208, F24H 15/212, F24H 15/215, F24H 15/219, F24H 15/223, F24H 15/225, F24H 15/227, F24H 15/231, F24H 15/232, F24H 15/235, F24H 15/238, F24H 15/242, F24H 15/246, F24H 15/248, F24H 15/25, F24H 15/254, F24H 15/258, F24H 15/262, F24H 15/265, F24H 15/269, F24H 15/273, F24H 15/277, F24H 15/281, F24H 15/288, F24H 15/292, F24H 15/296, F24H 15/30, F24H 15/305, F24H 15/31, F24H 15/315, F24H 15/32, F24H 15/325, F24H 15/33, F24H 15/335, F24H 15/34, F24H 15/345, F24H 15/35, F24H 15/355, F24H 15/36, F24H 15/365, F24H 15/37,

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<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title</u> “CPC only” text should normally be enclosed in {curly brackets}**	<u>Transferred to#</u>
				F24H 15/375, F24H 15/38, F24H 15/385, F24H 15/39, F24H 15/395, F24H 15/40, F24H 15/407, F24H 15/414, F24H 15/421, F24H 15/429, F24H 15/436, F24H 15/443, F24H 15/45, F24H 15/457, F24H 15/464, F24H 15/479, F24H 15/486, F24H 15/493
C	F24H 9/2042	4	{Preventing or detecting the return of combustion gases }	F24H 9/2042, F24H 9/25, F24H 9/28, F24H 15/00, F24H 15/10, F24H 15/104, F24H 15/108, F24H 15/112, F24H 15/116, F24H 15/12, F24H 15/124, F24H 15/128, F24H 15/132, F24H 15/136, F24H 15/14, F24H 15/144, F24H 15/148, F24H 15/152, F24H 15/156, F24H 15/16, F24H 15/164, F24H 15/168, F24H 15/172, F24H 15/174, F24H 15/175, F24H 15/176, F24H 15/18, F24H 15/184, F24H 15/196, F24H 15/20, F24H 15/204, F24H 15/208, F24H 15/212, F24H 15/215, F24H 15/219, F24H 15/223, F24H 15/225, F24H 15/227, F24H 15/231, F24H 15/232, F24H 15/235, F24H 15/238, F24H 15/242, F24H 15/246, F24H 15/248, F24H 15/25, F24H 15/254, F24H 15/258, F24H 15/262, F24H 15/265, F24H 15/269, F24H 15/273, F24H 15/277, F24H 15/281, F24H 15/288, F24H 15/292, F24H 15/296, F24H 15/30, F24H 15/305, F24H 15/31, F24H 15/315, F24H 15/32, F24H 15/325, F24H 15/33, F24H 15/335, F24H 15/34, F24H 15/345, F24H 15/35, F24H 15/355, F24H 15/36, F24H 15/365, F24H 15/37, F24H 15/375, F24H 15/38, F24H 15/385, F24H 15/39, F24H 15/395, F24H 15/40, F24H 15/407, F24H 15/414, F24H 15/421, F24H 15/429, F24H 15/436, F24H 15/443, F24H 15/45, F24H 15/457, F24H 15/464, F24H 15/479, F24H 15/486, F24H 15/493

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C	F24H 9/205	5	{Closing the energy supply }	F24H 9/205, F24H 9/25, F24H 9/28, F24H 15/00, F24H 15/10, F24H 15/104, F24H 15/108, F24H 15/112, F24H 15/116, F24H 15/12, F24H 15/124, F24H 15/128, F24H 15/132, F24H 15/136, F24H 15/14, F24H 15/144, F24H 15/148, F24H 15/152, F24H 15/156, F24H 15/16, F24H 15/164, F24H 15/168, F24H 15/172, F24H 15/174, F24H 15/175, F24H 15/176, F24H 15/18, F24H 15/184, F24H 15/196, F24H 15/20, F24H 15/204, F24H 15/208, F24H 15/212, F24H 15/215, F24H 15/219, F24H 15/223, F24H 15/225, F24H 15/227, F24H 15/231, F24H 15/232, F24H 15/235, F24H 15/238, F24H 15/242, F24H 15/246, F24H 15/248, F24H 15/25, F24H 15/254, F24H 15/258, F24H 15/262, F24H 15/265, F24H 15/269, F24H 15/273, F24H 15/277, F24H 15/281, F24H 15/288, F24H 15/292, F24H 15/296, F24H 15/30, F24H 15/305, F24H 15/31, F24H 15/315, F24H 15/32, F24H 15/325, F24H 15/33, F24H 15/335, F24H 15/34, F24H 15/345, F24H 15/35, F24H 15/355, F24H 15/36, F24H 15/365, F24H 15/37, F24H 15/375, F24H 15/38, F24H 15/385, F24H 15/39, F24H 15/395, F24H 15/40, F24H 15/407, F24H 15/414, F24H 15/421, F24H 15/429, F24H 15/436, F24H 15/443, F24H 15/45, F24H 15/457, F24H 15/464, F24H 15/479, F24H 15/486, F24H 15/493
C	F24H 9/2057	3	{using solid fuel }	F24H 9/2057, F24H 9/25, F24H 9/28, F24H 15/00, F24H 15/10, F24H 15/104, F24H 15/108, F24H 15/112, F24H 15/116, F24H 15/12, F24H 15/124, F24H 15/128, F24H 15/132, F24H 15/136, F24H 15/14, F24H 15/144, F24H 15/148, F24H 15/152, F24H 15/156, F24H 15/16, F24H 15/164, F24H 15/168, F24H 15/172, F24H 15/174, F24H 15/175, F24H 15/176, F24H 15/18, F24H 15/184, F24H

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				15/196, F24H 15/20, F24H 15/204, F24H 15/208, F24H 15/212, F24H 15/215, F24H 15/219, F24H 15/223, F24H 15/225, F24H 15/227, F24H 15/231, F24H 15/232, F24H 15/235, F24H 15/238, F24H 15/242, F24H 15/246, F24H 15/248, F24H 15/25, F24H 15/254, F24H 15/258, F24H 15/262, F24H 15/265, F24H 15/269, F24H 15/273, F24H 15/277, F24H 15/281, F24H 15/288, F24H 15/292, F24H 15/296, F24H 15/30, F24H 15/305, F24H 15/31, F24H 15/315, F24H 15/32, F24H 15/325, F24H 15/33, F24H 15/335, F24H 15/34, F24H 15/345, F24H 15/35, F24H 15/355, F24H 15/36, F24H 15/365, F24H 15/37, F24H 15/375, F24H 15/38, F24H 15/385, F24H 15/39, F24H 15/395, F24H 15/40, F24H 15/407, F24H 15/414, F24H 15/421, F24H 15/429, F24H 15/436, F24H 15/443, F24H 15/45, F24H 15/457, F24H 15/464, F24H 15/479, F24H 15/486, F24H 15/493
C	F24H 9/2064	2	{ for air heaters }	F24H 9/2064, F24H 9/25, F24H 9/28, F24H 15/00, F24H 15/10, F24H 15/104, F24H 15/108, F24H 15/112, F24H 15/116, F24H 15/12, F24H 15/124, F24H 15/128, F24H 15/132, F24H 15/136, F24H 15/14, F24H 15/144, F24H 15/148, F24H 15/152, F24H 15/156, F24H 15/16, F24H 15/164, F24H 15/168, F24H 15/172, F24H 15/174, F24H 15/175, F24H 15/176, F24H 15/18, F24H 15/184, F24H 15/196, F24H 15/20, F24H 15/204, F24H 15/208, F24H 15/212, F24H 15/215, F24H 15/219, F24H 15/223, F24H 15/225, F24H 15/227, F24H 15/231, F24H 15/232, F24H 15/235, F24H 15/238, F24H 15/242, F24H 15/246, F24H 15/248, F24H 15/25, F24H 15/254, F24H 15/258, F24H 15/262, F24H 15/265, F24H 15/269, F24H 15/273, F24H 15/277, F24H 15/281, F24H 15/288, F24H 15/292,

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				F24H 15/296, F24H 15/30, F24H 15/305, F24H 15/31, F24H 15/315, F24H 15/32, F24H 15/325, F24H 15/33, F24H 15/335, F24H 15/34, F24H 15/345, F24H 15/35, F24H 15/355, F24H 15/36, F24H 15/365, F24H 15/37, F24H 15/375, F24H 15/38, F24H 15/385, F24H 15/39, F24H 15/395, F24H 15/40, F24H 15/407, F24H 15/414, F24H 15/421, F24H 15/429, F24H 15/436, F24H 15/443, F24H 15/45, F24H 15/457, F24H 15/464, F24H 15/479, F24H 15/486, F24H 15/493
C	F24H 9/2071	3	{using electrical energy supply}	F24H 9/2071, F24H 9/25, F24H 9/28, F24H 15/00, F24H 15/10, F24H 15/104, F24H 15/108, F24H 15/112, F24H 15/116, F24H 15/12, F24H 15/124, F24H 15/128, F24H 15/132, F24H 15/136, F24H 15/14, F24H 15/144, F24H 15/148, F24H 15/152, F24H 15/156, F24H 15/16, F24H 15/164, F24H 15/168, F24H 15/172, F24H 15/174, F24H 15/175, F24H 15/176, F24H 15/18, F24H 15/184, F24H 15/196, F24H 15/20, F24H 15/204, F24H 15/208, F24H 15/212, F24H 15/215, F24H 15/219, F24H 15/223, F24H 15/225, F24H 15/227, F24H 15/231, F24H 15/232, F24H 15/235, F24H 15/238, F24H 15/242, F24H 15/246, F24H 15/248, F24H 15/25, F24H 15/254, F24H 15/258, F24H 15/262, F24H 15/265, F24H 15/269, F24H 15/273, F24H 15/277, F24H 15/281, F24H 15/288, F24H 15/292, F24H 15/296, F24H 15/30, F24H 15/305, F24H 15/31, F24H 15/315, F24H 15/32, F24H 15/325, F24H 15/33, F24H 15/335, F24H 15/34, F24H 15/345, F24H 15/35, F24H 15/355, F24H 15/36, F24H 15/365, F24H 15/37, F24H 15/375, F24H 15/38, F24H 15/385, F24H 15/39, F24H 15/395, F24H 15/40, F24H 15/407, F24H 15/414, F24H 15/421, F24H 15/429, F24H 15/436, F24H 15/443, F24H

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				15/45, F24H 15/457, F24H 15/464, F24H 15/479, F24H 15/486, F24H 15/493
C	F24H 9/2078	4	{Storage heaters }	F24H 9/2078, F24H 9/25, F24H 9/28, F24H 15/00, F24H 15/10, F24H 15/104, F24H 15/108, F24H 15/112, F24H 15/116, F24H 15/12, F24H 15/124, F24H 15/128, F24H 15/132, F24H 15/136, F24H 15/14, F24H 15/144, F24H 15/148, F24H 15/152, F24H 15/156, F24H 15/16, F24H 15/164, F24H 15/168, F24H 15/172, F24H 15/174, F24H 15/175, F24H 15/176, F24H 15/18, F24H 15/184, F24H 15/196, F24H 15/20, F24H 15/204, F24H 15/208, F24H 15/212, F24H 15/215, F24H 15/219, F24H 15/223, F24H 15/225, F24H 15/227, F24H 15/231, F24H 15/232, F24H 15/235, F24H 15/238, F24H 15/242, F24H 15/246, F24H 15/248, F24H 15/25, F24H 15/254, F24H 15/258, F24H 15/262, F24H 15/265, F24H 15/269, F24H 15/273, F24H 15/277, F24H 15/281, F24H 15/288, F24H 15/292, F24H 15/296, F24H 15/30, F24H 15/305, F24H 15/31, F24H 15/315, F24H 15/32, F24H 15/325, F24H 15/33, F24H 15/335, F24H 15/34, F24H 15/345, F24H 15/35, F24H 15/355, F24H 15/36, F24H 15/365, F24H 15/37, F24H 15/375, F24H 15/38, F24H 15/385, F24H 15/39, F24H 15/395, F24H 15/40, F24H 15/407, F24H 15/414, F24H 15/421, F24H 15/429, F24H 15/436, F24H 15/443, F24H 15/45, F24H 15/457, F24H 15/464, F24H 15/479, F24H 15/486, F24H 15/493
C	F24H 9/2085	3	{using fluid fuel }	F24H 9/2085, F24H 9/25, F24H 9/28, F24H 15/00, F24H 15/10, F24H 15/104, F24H 15/108, F24H 15/112, F24H 15/116, F24H 15/12, F24H 15/124, F24H 15/128, F24H 15/132, F24H 15/136, F24H 15/14, F24H 15/144, F24H 15/148, F24H 15/152, F24H 15/156, F24H 15/16, F24H 15/164,

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				F24H 15/168, F24H 15/172, F24H 15/174, F24H 15/175, F24H 15/176, F24H 15/18, F24H 15/184, F24H 15/196, F24H 15/20, F24H 15/204, F24H 15/208, F24H 15/212, F24H 15/215, F24H 15/219, F24H 15/223, F24H 15/225, F24H 15/227, F24H 15/231, F24H 15/232, F24H 15/235, F24H 15/238, F24H 15/242, F24H 15/246, F24H 15/248, F24H 15/25, F24H 15/254, F24H 15/258, F24H 15/262, F24H 15/265, F24H 15/269, F24H 15/273, F24H 15/277, F24H 15/281, F24H 15/288, F24H 15/292, F24H 15/296, F24H 15/30, F24H 15/305, F24H 15/31, F24H 15/315, F24H 15/32, F24H 15/325, F24H 15/33, F24H 15/335, F24H 15/34, F24H 15/345, F24H 15/35, F24H 15/355, F24H 15/36, F24H 15/365, F24H 15/37, F24H 15/375, F24H 15/38, F24H 15/385, F24H 15/39, F24H 15/395, F24H 15/40, F24H 15/407, F24H 15/414, F24H 15/421, F24H 15/429, F24H 15/436, F24H 15/443, F24H 15/45, F24H 15/457, F24H 15/464, F24H 15/479, F24H 15/486, F24H 15/493
C	F24H 9/2092	3	{using solid fuel}	F24H 9/2092, F24H 9/25, F24H 9/28, F24H 15/00, F24H 15/10, F24H 15/104, F24H 15/108, F24H 15/112, F24H 15/116, F24H 15/12, F24H 15/124, F24H 15/128, F24H 15/132, F24H 15/136, F24H 15/14, F24H 15/144, F24H 15/148, F24H 15/152, F24H 15/156, F24H 15/16, F24H 15/164, F24H 15/168, F24H 15/172, F24H 15/174, F24H 15/175, F24H 15/176, F24H 15/18, F24H 15/184, F24H 15/196, F24H 15/20, F24H 15/204, F24H 15/208, F24H 15/212, F24H 15/215, F24H 15/219, F24H 15/223, F24H 15/225, F24H 15/227, F24H 15/231, F24H 15/232, F24H 15/235, F24H 15/238, F24H 15/242, F24H 15/246, F24H 15/248, F24H 15/25, F24H 15/254, F24H 15/258, F24H

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				15/262, F24H 15/265, F24H 15/269, F24H 15/273, F24H 15/277, F24H 15/281, F24H 15/288, F24H 15/292, F24H 15/296, F24H 15/30, F24H 15/305, F24H 15/31, F24H 15/315, F24H 15/32, F24H 15/325, F24H 15/33, F24H 15/335, F24H 15/34, F24H 15/345, F24H 15/35, F24H 15/355, F24H 15/36, F24H 15/365, F24H 15/37, F24H 15/375, F24H 15/38, F24H 15/385, F24H 15/39, F24H 15/395, F24H 15/40, F24H 15/407, F24H 15/414, F24H 15/421, F24H 15/429, F24H 15/436, F24H 15/443, F24H 15/45, F24H 15/457, F24H 15/464, F24H 15/479, F24H 15/486, F24H 15/493
N	F24H 9/25	2	of remote control devices or control-panels	
N	F24H 9/28	3	characterised by the graphical user interface [GUI]	
N	F24H 9/40	1	Arrangements for preventing corrosion	
Q	F24H 9/45	2	for preventing galvanic corrosion, e.g. cathodic or electrolytic means	F24H 9/40, F24H 9/45, F24H 9/455, F24H 9/457
N	F24H 9/455	3	{for water heaters }	
N	F24H 9/457	3	{for air heaters }	
N	F24H 15/00	0	Control of fluid heaters	
N	F24H 15/10	1	characterised by the purpose of the control	
N	F24H 15/104	2	Inspection; Diagnosis; Trial operation	
N	F24H 15/108	2	Resuming operation, e.g. after power outages	
N	F24H 15/112	2	Preventing or detecting blocked flues	
N	F24H 15/116	3	Disabling the heating means in response thereto	
N	F24H 15/12	2	Preventing or detecting fluid leakage	
N	F24H 15/124	2	Preventing or detecting electric faults, e.g. electric leakage	
N	F24H 15/128	2	Preventing overheating	
N	F24H 15/132	3	Preventing the operation of water heaters with low water levels, e.g. dry-firing	
N	F24H 15/136	2	Defrosting or de-icing; Preventing freezing	
N	F24H 15/14	2	Cleaning; Sterilising; Preventing contamination by bacteria or microorganisms, e.g. by replacing fluid in tanks or conduits	
N	F24H 15/144	2	Measuring or calculating energy consumption	

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<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title</u> “CPC only” text should normally be enclosed in {curly brackets}**	<u>Transferred to#</u>
N	F24H 15/148	3	Assessing the current energy consumption	
N	F24H 15/152	3	Forecasting future energy consumption	
N	F24H 15/156	2	Reducing the quantity of energy consumed; Increasing efficiency	
N	F24H 15/16	2	Reducing cost using the price of energy, e.g. choosing or switching between different energy sources	
N	F24H 15/164	3	where the price of the electric supply changes with time	
N	F24H 15/168	2	Reducing the electric power demand peak	
N	F24H 15/172	2	Scheduling based on user demand, e.g. determining starting point of heating	
N	F24H 15/174	2	Supplying heated water with desired temperature or desired range of temperature	
N	F24H 15/175	3	where the difference between the measured temperature and a set temperature is kept under a predetermined value	
N	F24H 15/176	2	Improving or maintaining comfort of users	
N	F24H 15/18	3	Preventing sudden or unintentional change of fluid temperature	
N	F24H 15/184	2	Preventing harm to users from exposure to heated water, e.g. scalding	
N	F24H 15/196	2	Automatically filling bathtubs or pools; Reheating the water in bathtubs or pools	
N	F24H 15/20	1	characterised by control inputs	
N	F24H 15/204	2	Temperature of the air before heating	
N	F24H 15/208	2	Temperature of the air after heating	
N	F24H 15/212	2	Temperature of the water	
N	F24H 15/215	3	before heating	
N	F24H 15/219	3	after heating	
N	F24H 15/223	3	in the water storage tank	
N	F24H 15/225	4	at different heights of the tank	
N	F24H 15/227	2	Temperature of the refrigerant in heat pump cycles	
N	F24H 15/231	3	at the evaporator	
N	F24H 15/232	3	at the condenser	
N	F24H 15/235	2	Temperature of exhaust gases	
N	F24H 15/238	2	Flow rate	
N	F24H 15/242	2	Pressure	
N	F24H 15/246	2	Water level	
N	F24H 15/248	3	of water storage tanks	
N	F24H 15/25	2	Temperature of the heat-generating means in the heater	
N	F24H 15/254	2	Room temperature	
N	F24H 15/258	2	Outdoor temperature	

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<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title</u> “CPC only” text should normally be enclosed in {curly brackets}**	<u>Transferred to#</u>
N	F24H 15/262	2	Weather information or forecast	
N	F24H 15/265	2	Occupancy	
N	F24H 15/269	2	Time, e.g. hour or date	
N	F24H 15/273	2	Address or location	
N	F24H 15/277	2	Price	
N	F24H 15/281	2	Input from user	
N	F24H 15/288	2	Accumulation of deposits, e.g. lime or scale	
N	F24H 15/292	2	Metering of electricity sold to the grid	
N	F24H 15/296	2	Information from neighbouring devices	
N	F24H 15/30	1	characterised by control outputs; characterised by the components to be controlled	
N	F24H 15/305	2	Control of valves (of heat pumps F24H 15/385, F24H 15/39)	
N	F24H 15/31	3	of valves having only one inlet port and one outlet port, e.g. flow rate regulating valves	
N	F24H 15/315	3	of mixing valves	
N	F24H 15/32	3	of switching valves (for by-passing F24H 15/325)	
N	F24H 15/325	3	of by-pass valves	
N	F24H 15/33	2	Control of dampers	
N	F24H 15/335	2	Control of pumps, e.g. on-off control (control of compressors of heat pumps F24H 15/38)	
N	F24H 15/34	3	Control of the speed of pumps	
N	F24H 15/345	2	Control of fans, e.g. on-off control (control of fans of heat pump units F24H 15/375)	
N	F24H 15/35	3	Control of the speed of fans	
N	F24H 15/355	2	Control of heat-generating means in heaters	
N	F24H 15/36	3	of burners	
N	F24H 15/365	4	of two or more burners, e.g. an array of burners	
N	F24H 15/37	3	of electric heaters	
N	F24H 15/375	2	Control of heat pumps	
N	F24H 15/38	3	Control of compressors of heat pumps	
N	F24H 15/385	3	Control of expansion valves of heat pumps	
N	F24H 15/39	3	Control of valves for distributing refrigerant to different evaporators or condensers in heat pumps	
N	F24H 15/395	2	Information to users, e.g. alarms	
N	F24H 15/40	1	characterised by the type of controllers	
N	F24H 15/407	2	using electrical switching, e.g. TRIAC	
N	F24H 15/414	2	using electronic processing, e.g. computer-based	

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<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title</u> <u>“CPC only” text should normally be enclosed in {curly brackets}**</u>	<u>Transferred to#</u>
N	F24H 15/421	3	using pre-stored data	
N	F24H 15/429	4	for selecting operation modes	
N	F24H 15/436	4	for selecting sleeping modes	
N	F24H 15/443	3	using a central controller connected to several sub-controllers	
N	F24H 15/45	3	remotely accessible	
N	F24H 15/457	4	using telephone networks or Internet communication	
N	F24H 15/464	4	using local wireless communication	
N	F24H 15/479	4	for programming the system	
N	F24H 15/486	2	using timers	
N	F24H 15/493	2	especially adapted for enabling recognition of parts newly installed in the fluid heating system, e.g. for retrofitting or for repairing by replacing parts	

*N = new entries where reclassification into entries is involved; C = entries with modified file scope where reclassification of documents from the entries is involved; Q = new entries which are firstly populated with documents via administrative transfers from deleted (D) entries. Afterwards, the transferred documents into the Q entry will either stay or be moved to more appropriate entries, as determined by intellectual reclassification; T= existing entries with enlarged file scope, which receive documents from C or D entries, e.g. when a limiting reference is removed from the entry title; M = entries with no change to the file scope (no reclassification); D = deleted entries; F = frozen entries will be deleted once reclassification of documents from the entries is completed; U = entries that are unchanged.

NOTES:

- **No {curly brackets} are used for titles in CPC only subclasses, e.g. C12Y, A23Y; 2000 series symbol titles of groups found at the end of schemes (orthogonal codes); or the Y section titles. The {curly brackets} are used for 2000 series symbol titles found interspersed throughout the main trunk schemes (breakdown codes).
- U groups: it is obligatory to display the required “anchor” symbol (U group), i.e. the entry immediately preceding a new group or an array of new groups to be created (in case new groups are not clearly subgroups of C-type groups). Always include the symbol, indent level and title of the U group in the table above.
- All entry types should be included in the scheme changes table above for better understanding of the overall scheme change picture. Symbol, indent level, and title are required for all types .
- “Transferred to” column must be completed for all C, D, F, and Q type entries. F groups will be deleted once reclassification is completed.
- When multiple symbols are included in the “Transferred to” column, avoid using ranges of symbols in order to be as precise as possible.
- For administrative transfer of documents, the following text should be used: “< administrative transfer to XX>”, “<administrative transfer to XX and YY simultaneously>”, or “<administrative transfer to XX, YY, ...and ZZ simultaneously>” when administrative transfer of the same documents is to more than one place.
- Administrative transfer to main trunk groups is assumed to be the source allocation type, unless otherwise indicated.
- Administrative transfer to 2000/Y series groups is assumed to be “additional information”.
- If needed, instructions for allocation type should be indicated within the angle brackets using the abbreviations “ADD” or “INV”: <administrative transfer to XX ADD> , <administrative transfer to XX INV>, or < administrative transfer to XX ADD, YY INV, ... and ZZ ADD simultaneously>.
- In certain situations, the “D” entries of 2000-series or Y-series groups may not require a destination (“Transferred to”) symbol, however it is required to specify “<no transfer>” in the “Transferred to” column for such cases.
- For finalisation projects, the deleted “F” symbols should have <no transfer> in the “Transferred to” column.
- For more details about the types of scheme change, see CPC Guide.

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B. New, Modified or Deleted Warning(s)

SUBCLASS F24D - DOMESTIC- OR SPACE-HEATING SYSTEMS, e.g. CENTRAL HEATING SYSTEMS; DOMESTIC HOT-WATER SUPPLY SYSTEMS; ELEMENTS OR COMPONENTS THEREFOR

<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
N	F24D 19/10		Group F24D 19/10 is impacted by reclassification into groups F24H 15/00 - F24H 15/493. All groups listed in this Warning should be considered in order to perform a complete search.
N	F24D 19/1003		Group F24D 19/1003 is impacted by reclassification into groups F24H 15/00 - F24H 15/493. All groups listed in this Warning should be considered in order to perform a complete search.
N	F24D 19/1006		Group F24D 19/1006 is impacted by reclassification into groups F24H 15/00 - F24H 15/493. All groups listed in this Warning should be considered in order to perform a complete search.
N	F24D 19/1009		Group F24D 19/1009 is impacted by reclassification into groups F24H 15/00 - F24H 15/493. All groups listed in this Warning should be considered in order to perform a complete search.
N	F24D 19/1012		Group F24D 19/1012 is impacted by reclassification into groups F24H 15/00 - F24H 15/493. All groups listed in this Warning should be considered in order to perform a complete search.
N	F24D 19/1015		Group F24D 19/1015 is impacted by reclassification into groups F24H 15/00 - F24H 15/493. All groups listed in this Warning should be considered in order to perform a complete search.
N	F24D 19/1018		Group F24D 19/1018 is impacted by reclassification into groups F24H 15/00 - F24H 15/493. All groups listed in this Warning should be considered in order to perform a complete search.
N	F24D 19/1021		Group F24D 19/1021 is impacted by reclassification into groups F24H 15/00 - F24H 15/493. All groups listed in this Warning should be considered in order to perform a complete search.
N	F24D 19/1024		Group F24D 19/1024 is impacted by reclassification into groups F24H 15/00 - F24H 15/493. All groups listed in this Warning should be considered in order to perform a complete search.
N	F24D 19/1027		Group F24D 19/1027 is impacted by reclassification into groups F24H 15/00 - F24H 15/493. All groups listed in this Warning should be considered in order to perform a complete search.
N	F24D 19/103		Group F24D 19/103 is impacted by reclassification into groups F24H 15/00 - F24H 15/493. All groups listed in this Warning should be considered in order to perform a complete search.

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<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
N	F24D 19/1033		Group F24D 19/1033 is impacted by reclassification into groups F24H 15/00 - F24H 15/493. All groups listed in this Warning should be considered in order to perform a complete search.
N	F24D 19/1036		Group F24D 19/1036 is impacted by reclassification into groups F24H 15/00 - F24H 15/493. All groups listed in this Warning should be considered in order to perform a complete search.
N	F24D 19/1039		Group F24D 19/1039 is impacted by reclassification into groups F24H 15/00 - F24H 15/493. All groups listed in this Warning should be considered in order to perform a complete search.
N	F24D 19/1042		Group F24D 19/1042 is impacted by reclassification into groups F24H 15/00 - F24H 15/493. All groups listed in this Warning should be considered in order to perform a complete search.
N	F24D 19/1045		Group F24D 19/1045 is impacted by reclassification into groups F24H 15/00 - F24H 15/493. All groups listed in this Warning should be considered in order to perform a complete search.
N	F24D 19/1048		Group F24D 19/1048 is impacted by reclassification into groups F24H 15/00 - F24H 15/493. All groups listed in this Warning should be considered in order to perform a complete search.
N	F24D 19/1051		Group F24D 19/1051 is impacted by reclassification into groups F24H 15/00 - F24H 15/493. All groups listed in this Warning should be considered in order to perform a complete search.
N	F24D 19/1054		Group F24D 19/1054 is impacted by reclassification into groups F24H 15/00 - F24H 15/493. All groups listed in this Warning should be considered in order to perform a complete search.
N	F24D 19/1057		Group F24D 19/1057 is impacted by reclassification into groups F24H 15/00 - F24H 15/493. All groups listed in this Warning should be considered in order to perform a complete search.
N	F24D 19/106		Group F24D 19/106 is impacted by reclassification into groups F24H 15/00 - F24H 15/493. All groups listed in this Warning should be considered in order to perform a complete search.
N	F24D 19/1063		Group F24D 19/1063 is impacted by reclassification into groups F24H 15/00 - F24H 15/493. All groups listed in this Warning should be considered in order to perform a complete search.
N	F24D 19/1066		Group F24D 19/1066 is impacted by reclassification into groups F24H 15/00 - F24H 15/493. All groups listed in this Warning should be considered in order to perform a complete search.

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<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
N	F24D 19/1069		Group F24D 19/1069 is impacted by reclassification into groups F24H 15/00 - F24H 15/493. All groups listed in this Warning should be considered in order to perform a complete search.
N	F24D 19/1072		Group F24D 19/1072 is impacted by reclassification into groups F24H 15/00 - F24H 15/493. All groups listed in this Warning should be considered in order to perform a complete search.
N	F24D 19/1075		Group F24D 19/1075 is impacted by reclassification into groups F24H 15/00 - F24H 15/493. All groups listed in this Warning should be considered in order to perform a complete search.
N	F24D 19/1078		Group F24D 19/1078 is impacted by reclassification into groups F24H 15/00 - F24H 15/493. All groups listed in this Warning should be considered in order to perform a complete search.
N	F24D 19/1081		Group F24D 19/1081 is impacted by reclassification into groups F24H 15/00 - F24H 15/493. All groups listed in this Warning should be considered in order to perform a complete search.
N	F24D 19/1084		Group F24D 19/1084 is impacted by reclassification into groups F24H 15/00 - F24H 15/493. All groups listed in this Warning should be considered in order to perform a complete search.
N	F24D 19/1087		Group F24D 19/1087 is impacted by reclassification into groups F24H 15/00 - F24H 15/493. All groups listed in this Warning should be considered in order to perform a complete search.
N	F24D 19/109		Group F24D 19/109 is impacted by reclassification into groups F24H 15/00 - F24H 15/493. All groups listed in this Warning should be considered in order to perform a complete search.
N	F24D 19/1093		Group F24D 19/1093 is impacted by reclassification into groups F24H 15/00 - F24H 15/493. All groups listed in this Warning should be considered in order to perform a complete search.
N	F24D 19/1096		Group F24D 19/1096 is impacted by reclassification into groups F24H 15/00 - F24H 15/493. All groups listed in this Warning should be considered in order to perform a complete search.

SUBCLASS F24H - FLUID HEATERS, e.g. WATER OR AIR HEATERS, HAVING HEAT GENERATING MEANS, IN GENERAL

<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
D	F24H	In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be	<u>Delete the entire</u> existing warning.

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<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
		displayed in the scheme.	
N	F24H 9/1809		Group F24H 9/1809 is impacted by reclassification into group F24H 9/1832. Groups F24H 9/1809 and F24H 9/1832 should be considered in order to perform a complete search.
N	F24H 9/1832		Group F24H 9/1832 is incomplete pending reclassification of documents from group F24H 9/1809. Groups F24H 9/1809 and F24H 9/1832 should be considered in order to perform a complete search.
N	F24H 9/1854		Group F24H 9/1854 is impacted by reclassification into group F24H 9/1877. Groups F24H 9/1854 and F24H 9/1877 should be considered in order to perform a complete search.
N	F24H 9/1877		Group F24H 9/1877 is incomplete pending reclassification of documents from group F24H 9/1854. Groups F24H 9/1854 and F24H 9/1877 should be considered in order to perform a complete search.
N	F24H 9/20		Group F24H 9/20 is impacted by reclassification into groups F24H 9/25, F24H 9/28, and F24H 15/00 - F24H 15/493. All groups listed in this Warning should be considered in order to perform a complete search.
N	F24H 9/2007		Group F24H 9/2007 is impacted by reclassification into groups F24H 9/25, F24H 9/28, and F24H 15/00 - F24H 15/493. All groups listed in this Warning should be considered in order to perform a complete search.
N	F24H 9/2014		Group F24H 9/2014 is impacted by reclassification into groups F24H 9/25, F24H 9/28, and F24H 15/00 - F24H 15/493. All groups listed in this Warning should be considered in order to perform a complete search.
N	F24H 9/2021		Group F24H 9/2021 is impacted by reclassification into groups F24H 9/25, F24H 9/28, and F24H 15/00 - F24H 15/493. All groups listed in this Warning should be considered in order to perform a complete search.
N	F24H 9/2028		Group F24H 9/2028 is impacted by reclassification into groups F24H 9/25, F24H 9/28, and F24H 15/00 - F24H 15/493. All groups listed in this Warning should be considered in order to perform a complete search.
N	F24H 9/2035		Group F24H 9/2035 is impacted by reclassification into groups F24H 9/25, F24H 9/28, and F24H 15/00 - F24H 15/493. All groups listed in this Warning should be considered in order to perform a complete search.
N	F24H 9/2042		Group F24H 9/2042 is impacted by reclassification into groups F24H 9/25, F24H 9/28, and F24H 15/00 - F24H 15/493. All groups listed in this Warning should be considered in order to perform a complete search.
N	F24H 9/205		Group F24H 9/205 is impacted by reclassification into groups F24H 9/25, F24H 9/28, and F24H 15/00 - F24H 15/493. All groups listed in this Warning should be considered in order to perform a complete search.

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<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
N	F24H 9/2057		Group F24H 9/2057 is impacted by reclassification into groups F24H 9/25, F24H 9/28, and F24H 15/00 - F24H 15/493. All groups listed in this Warning should be considered in order to perform a complete search.
N	F24H 9/2064		Group F24H 9/2064 is impacted by reclassification into groups F24H 9/25, F24H 9/28, and F24H 15/00 - F24H 15/493. All groups listed in this Warning should be considered in order to perform a complete search.
N	F24H 9/2071		Group F24H 9/2071 is impacted by reclassification into groups F24H 9/25, F24H 9/28, and F24H 15/00 - F24H 15/493. All groups listed in this Warning should be considered in order to perform a complete search.
N	F24H 9/2078		Group F24H 9/2078 is impacted by reclassification into groups F24H 9/25, F24H 9/28, and F24H 15/00 - F24H 15/493. All groups listed in this Warning should be considered in order to perform a complete search.
N	F24H 9/2085		Group F24H 9/2085 is impacted by reclassification into groups F24H 9/25, F24H 9/28, and F24H 15/00 - F24H 15/493. All groups listed in this Warning should be considered in order to perform a complete search.
N	F24H 9/2092		Group F24H 9/2092 is impacted by reclassification into groups F24H 9/25, F24H 9/28, and F24H 15/00 - F24H 15/493. All groups listed in this Warning should be considered in order to perform a complete search.
N	F24H 9/25		Groups F24H 9/25 and F24H 9/28 are incomplete pending reclassification of documents from groups F24H 9/20, F24H 9/2007, F24H 9/2014, F24H 9/2021, F24H 9/2028, F24H 9/2035, F24H 9/2042, F24H 9/205, F24H 9/2057, F24H 9/2064, F24H 9/2071, F24H 9/2078, F24H 9/2085, and F24H 9/2092. All groups listed in this Warning should be considered in order to perform a complete search.
N	F24H 9/40		Groups F24H 9/40, F24H 9/455, and F24H 9/457 are incomplete pending reclassification of documents from group F24H 9/45. All groups listed in this Warning should be considered in order to perform a complete search.
N	F24H 9/45		Group F24H 9/45 is impacted by reclassification into groups F24H 9/40, F24H 9/455, and F24H 9/457. All groups listed in this Warning should be considered in order to perform a complete search.
N	F24H 15/00		Groups F24H 15/00-F24H 15/493 are incomplete pending reclassification of documents from groups F24D 19/10 - F24D 19/1096 and F24H 9/20 - F24H 9/2092. All groups listed in this Warning should be considered in order to perform a complete search.

*N = new warning, M = modified warning, D = deleted warning

NOTE: The "Location" column only requires the symbol PRIOR to the location of the warning. No further directions such as "before" or "after" are required.

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C. New, Modified or Deleted Note(s)

SUBCLASS F24H - FLUID HEATERS, e.g. WATER OR AIR HEATERS, HAVING HEAT GENERATING MEANS, IN GENERAL

<u>Type*</u>	<u>Location</u>	<u>Old Note</u>	<u>New/Modified Note</u>
M	F24H	<p>1. The distinguishing feature of the air heaters covered by this subclass is that the heat is predominantly released to the air by convection, mostly by forced circulation of the air. The domestic stoves or ranges covered by subclasses F24B, F24C may also be fired or electric air heaters but they release their heat to a considerable extent by radiation and only to some extent by natural convection.</p> <p>2. In this subclass the following terms are used with the meanings indicated:</p> <ul style="list-style-type: none"> • "Water" includes other liquids; • "air" includes other gases or gas mixtures; • "water" and "air" always mean, respectively, the liquid and gas to be heated; • "Furnace tubes" means tubes inside the heater wherein combustion is performed; • "Fire tubes" means tubes inside the heater through which flue-gases flow from a combustion chamber located outside the tubes; • "Heater" means apparatus including both heat generating means and means for transferring the generated heat to water or air. 	<p><u>Replace</u> the existing text of <u>only Note 2</u> with the following <u>updated</u> text for Note 2.</p> <p>2. In this subclass, the following terms are used with the meanings indicated:</p> <ul style="list-style-type: none"> • "water" includes other liquids and means always the liquid to be heated; • "air" includes other gases or gas mixtures and means always the gas to be heated; • "furnace tubes" means tubes inside the heater wherein combustion is performed; • "fire tubes" means tubes inside the heater through which flue-gases flow from a combustion chamber located outside the tubes; • "heater" means apparatus including both heat generating means and means for transferring the generated heat to water or air.

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<u>Type*</u>	<u>Location</u>	<u>Old Note</u>	<u>New/Modified Note</u>
		3. All storage heaters are classified in group F24H 7/00.	

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2. A. DEFINITIONS (New)

Insert the following NEW definitions.

F24H 1/10

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Water heaters for central heating incorporating heat exchangers for domestic water	F24H1/52
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F24H 1/18

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Water heaters for central heating incorporating heaters for domestic water tanks	F24H1/50
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F24H 1/181

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Containers or tanks in general, e.g. metal containers	B65D, B65D7/00
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F24H 1/182**References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Containers with thermal insulation in general	B65D81/38
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F24H 1/183**References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Linings for containers in general	B65D25/14 , B65D90/04
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F24H 1/22**References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Water heaters for central heating incorporating heaters for domestic water	F24H1/48
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F24H 1/24**References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Water heaters other than continuous-flow or water storage heaters with water chamber arranged adjacent to the combustion chamber or chambers	F24H1/34
Water heaters other than continuous-flow or water storage heaters with water contained in separate elements	F24H1/38
Water heaters other than continuous-flow or water storage heaters with water tube or tubes	F24H1/40

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Water heaters other than continuous-flow or water storage heaters with combinations of two or more of said water heaters	F24H1/44
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F24H 1/34**References****Informative references**

Attention is drawn to the following places, which may be of interest for search:

Water heaters other than continuous-flow or water storage heaters with water mantle surrounding the combustion chamber or chambers	F24H1/24
Water heaters other than continuous-flow or water storage heaters with water contained in separate elements	F24H1/38
Water heaters other than continuous-flow or water storage heaters with water tube or tubes	F24H1/40
Water heaters other than continuous-flow or water storage heaters with combinations of two or more of said water heaters	F24H1/44

F24H 1/38**References****Informative references**

Attention is drawn to the following places, which may be of interest for search:

Water heaters other than continuous-flow or water storage heaters with water mantle surrounding the combustion chamber or chambers	F24H1/24
Water heaters other than continuous-flow or water storage heaters with water chamber arranged adjacent to the combustion chamber or chambers	F24H1/34
Water heaters other than continuous-flow or water storage heaters with water tube or tubes	F24H1/40
Water heaters other than continuous-flow or water storage heaters with combinations of two or more of said water heaters	F24H1/44

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F24H 1/40**References****Informative references**

Attention is drawn to the following places, which may be of interest for search:

Water heaters other than continuous-flow or water storage heaters with water mantle surrounding the combustion chamber or chambers	F24H1/24
Water heaters other than continuous-flow or water storage heaters with water chamber arranged adjacent to the combustion chamber or chambers	F24H1/34
Water heaters other than continuous-flow or water storage heaters with water contained in separate elements	F24H1/38
Water heaters other than continuous-flow or water storage heaters with combinations of two or more of said water heaters	F24H1/44

F24H 1/48**References****Application-oriented references**

Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:

Central heating systems	F24D
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F24H 3/02**References****Informative references**

Attention is drawn to the following places, which may be of interest for search:

Air heaters with additional heating arrangements	F24H3/12
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F24H 9/12**References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Pipe joints in general	F16L
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F24H 9/14**References****Limiting references***This place does not cover:*

Arrangements for connecting heaters to circulation pipes	F24H9/12
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Informative references*Attention is drawn to the following places, which may be of interest for search:*

In radiators	F28F9/26
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F24H 9/16**References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Valves for drainage	F16K, F16K21/00
Arrangements for water drainage in pipes or pipe systems in general	F16L55/00
Arrangements for water drainage in domestic-or space-heating systems	F24D19/08

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F24H 9/18**References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Burners	F23D
Grates	F23H
Electric heating elements	H05B

F24H 9/20**References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Control valves	F16K
Safety devices for burners	F23D3/26, F23D5/16, F23D14/72
Combustion control devices	F23N
Automatic switching for electric heating apparatus	H05B1/02

F24H 15/204**References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Room temperature	F24H15/254
Outdoor temperature	F24H15/258

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F24H 15/457

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Information and communication technology specially adapted for the Internet of Things [IoT]	G16Y
Remote controls using telephone networks for air conditioning devices	F24F11/57
Remote controls using Internet communication for air conditioning devices	F24F11/58

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2.A. DEFINITIONS (Modified)**F24H****Definition statement**

Insert: The following text as the last bulleted statement in the existing “Definition statement” section.

- Control of fluid heaters

Relationships with other classification places

Replace: The existing second paragraph in the “Relationships with other classification places” section with the updated paragraph below.

Heaters integrated in a heating system adapted for domestic- or space-heating application, in which the heat is transmitted by a circuit to a consumer, are classified in [F24D](#).

Limiting references

Replace: ALL of the existing references in the “Limiting references” table with the following one new reference.

Steam generation	F22
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Application-oriented references

Replace: ALL of the existing references in the “Application-oriented references” table with following references.

Arrangement or adaptation of heating devices specially for passenger or goods spaces of vehicles, the heat being derived otherwise than from the propulsion plant	B60H 1/22
Air-heating in railway vehicles	B61D 27/00
Air-heating in ships or other waterborne vessels	B63J 2/12
Arrangements or adaptations of air-treatment apparatus for aircraft crew or passengers, or freight space, the air being heated	B64D 13/08
Domestic- or space-heating systems; Domestic hot-water supply systems	F24D

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Informative references

Replace: ALL of the existing references in the “Informative references” table with following updated references.

Protecting plants by heating in gardens, orchards or forests	A01G 13/06
Baking ovens and apparatus for baking	A21B
Apparatus for making beverages	A47J
Forge furnaces	B21J
Heat-transfer, heat-exchange or heat-storage materials	C09K 5/00
Tube furnaces for thermal non-catalytic cracking	C10G 9/20
Devices, e.g. valves, for venting and aerating enclosures	F16K 24/00
Steam traps or like apparatus	F16T
Combustion apparatus	F23
Heat source: Burners	F23B
Domestic stoves or ranges	F24B, F24C
Heat source: Solar and geothermal heating means	F24S, F24T
Heat source: Heat pumps	F25B
Driers for solid material	F26B
Furnaces, kilns, ovens, retorts	F27
Heat exchangers	F28
Storage tanks	F28D20/00
Controlling temperature	G05D23/00
Electric heating elements and arrangements	H05B

F24H1/00**Limiting references**

Delete: The following three existing references from the “Limiting references” table.

Storage heater	F24H 7/00
Fluid heaters having heat-generating means specially adapted for extracting latent heat from flue gases by means of condensation; Condensing boilers	F24H 8/00
Domestic stoves or ranges with additional provisions for heating water	F24B9/00, F24C13/00

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Insert: The following new “Application-oriented references” section.

Application-oriented references

Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:

Domestic stoves or ranges with additional provisions for heating water	F24B9/00 , F24C13/00
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Informative references

Replace: The existing “Informative references” table with following updated references.

Water heaters characterised by the use of heat pumps	F24H4/02
Liquid storage heaters using heat pumps	F24H4/04
Storage heaters, i.e. heaters in which the energy is stored as heat in masses for subsequent release	F24H7/00
Fluid heaters characterised by means for extracting latent heat from flue gases by means of condensate	F24H8/00
Details of fluid heaters	F24H9/00
Solid fuel fired boiler	F24H2230/00
Cooking vessels	A47J27/00
Apparatus for making beverages	A47J31/54
Apparatus for making beverages	A47J31/542
Bathing devices for therapeutic purposes	A61H33/00
Windscreen washers comprising a water heater	B60S1/487
Details concerning the thermal insulation of a container	B65D81/38
Details of washing machines	D06F39/00
Plumbing installations for fresh water having heating or cooling apparatus	E03C1/044
Systems for heating the water content of swimming pools	E04H4/129
Heating or cooling pipes or pipe systems	F16L53/00
Details of baffles or deflectors within the combustion chamber	F23M9/00
Hot-water central heating systems in combination with systems for domestic hot-water supply	F24D3/08
Central heating systems using heat accumulated in storage masses	F24D11/00

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Solar heating of swimming pools	F24S20/02
Storing heat collected by solar heat collectors	F24S60/30
Storing geothermal heat	F24T10/30
Tubular heat-exchangers	F28D7/00
Tubular elements, Assemblies of tubular elements	F28F1/00
Ohmic-resistance heating	H05B3/00

F24H3/00**Definition statement**

Replace: The existing text in the “Definition statement” section with the following updated text.

Air heaters sorted by the type of heat source, e.g. using electric energy supply or using fluid combustible or using solid combustibles.

Air heaters with forced circulation of air.

Air heaters with a main heat source and additional heating arrangements.

Air heaters where the air is heated at the same location where the heat is generated.

Relationships with other classification places

Replace: The first paragraph in the “Relationships with other classification places” section with the updated first paragraph shown below.

Central heating radiators are not considered as an air heater as covered in this group. The central heating radiators as such are covered by [F28D1/00](#). Central heating radiators comprising additional heating means located within the radiator are covered by [F24D13/04](#).

Limiting references

Delete: The entire “Limiting references” section.

Application-oriented references

Replace: The references in the existing “Application-oriented references” table with the following updated references.

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Arrangement or adaptation of heating devices specially for passenger or goods spaces of vehicles, the heat being derived otherwise than from the propulsion plant	B60H 1/22
Interaction of the air heater with the vehicle (mounting a heater within a vehicle)	B60H1/2215
Hot air central heating system	F24D5/00
Central heating radiators for heating air comprising an additional electric heating means	F24D13/04

Informative references

Replace: The references in the existing “Informative references” table with the following updated references.

Air heaters characterised by the use of heat pumps	F24H4/06
Storage heaters, i.e. heaters in which the energy is stored as heat in masses for subsequent release	F24H7/00
Fluid heaters characterised by means for extracting latent heat from flue gases by means of condensation	F24H8/00
Hair dryers	A45D20/00
Towel racks, Towel rails, Towel rods, Towel rolls	A47K10/00
Welding wherein the heat is provided by a hot air stream	B23K
Domestic stoves or ranges with additional provisions for convection heating of air	F24B, F24C
Air conditioning devices which provide heated and cooled air	F24F
Lighting fixture and air heating means	F24F13/078
Central heating radiators as such	F28D1/00

Glossary of terms

Replace: The existing text in the “first row” of the “Glossary of terms” table with the following updated text shown below.

Heating medium	means the resistive element, PTC/NTC element, induction element, microwave generator, Peltier element or lamp
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F24H4/00**Limiting references**

Delete: The entire existing “Limiting references” section.

Insert: The following new “Application-oriented references” section.

Application-oriented references

Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:

Other domestic or non-central space-heating system, consisting of self-contained heating units	F24D15/02
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Informative references

Delete: From the existing “Informative references” table the following reference.

Other domestic or non-central space-heating system, consisting of self-contained heating units	F24D15/02
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Insert: The following two new references in the existing “Informative references” table.

Air conditioning devices using heat pumps which provide heated and cooled air	F24F
Heat pump systems in general	F25B

F24H6/00**Limiting references**

Delete: The entire existing “Limiting references” section.

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Insert: The following new “Application-oriented references” section.

Application-oriented references

Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:

Hot-air central heating systems	F24D5/00
Hot-air central heating systems using heat pumps	F24D5/12

Informative references

Delete: The entire existing “Informative references” section.

F24H7/00

Definition statement

Replace: The text in the existing “Definition statement” section with the following updated text.

Storage heaters ranked by the kind of the heat source, in which the heat storing material stays in the heater and wherein the released heat is either conveyed to a transfer fluid, e.g. air or water, or the released heat is radiated.

Relationships with other classification places

Delete: The entire existing “Relationships with other classification places” section.

Limiting references

Delete: The entire existing “Limiting references” section.

Informative references

Insert: The following two new references in the existing “Informative references” table.

Water storage heaters	F24H1/18
Domestic stoves or ranges with additional heat storage masses	F24B1/24, F24C 15/34

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F24H8/00**Limiting references**Delete: The entire existing “Limiting references” section.**F24H9/00****Limiting references**Delete: The entire existing “Limiting references” section.**Informative references**Replace: The entire existing “Informative references” table with the following updated reference table.

Control valves	F16K
Safety devices for burners	F23D
Constructional details of combustion chambers, not otherwise provided for	F23M
Regulating or controlling combustion	F23N
Connecting central heating radiator to circulation pipes	F24D19/0002
Arrangements for mountings or supports for central heating radiators	F24D19/02
Casings, cover lids or ornamental panels for central heating radiators	F24D19/06
Arrangements for drainage, venting or aerating in domestic- or space-heating systems	F24D19/08
Casings, Header boxes, Auxiliary supports for elements, Auxiliary members within casings	F28F9/00
Arrangements for connecting different sections of heat exchange elements, e.g. of radiators	F28F9/26

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3. REVISION CONCORDANCE LIST (RCL)

<u>Type*</u>	<u>From CPC Symbol (existing)</u>	<u>To CPC Symbol(s)</u>
C	F24D 19/10	F24D 19/10, F24H 15/00, F24H 15/10, F24H 15/104, F24H 15/108, F24H 15/112, F24H 15/116, F24H 15/12, F24H 15/124, F24H 15/128, F24H 15/132, F24H 15/136, F24H 15/14, F24H 15/144, F24H 15/148, F24H 15/152, F24H 15/156, F24H 15/16, F24H 15/164, F24H 15/168, F24H 15/172, F24H 15/174, F24H 15/175, F24H 15/176, F24H 15/18, F24H 15/184, F24H 15/196, F24H 15/20, F24H 15/204, F24H 15/208, F24H 15/212, F24H 15/215, F24H 15/219, F24H 15/223, F24H 15/225, F24H 15/227, F24H 15/231, F24H 15/232, F24H 15/235, F24H 15/238, F24H 15/242, F24H 15/246, F24H 15/248, F24H 15/25, F24H 15/254, F24H 15/258, F24H 15/262, F24H 15/265, F24H 15/269, F24H 15/273, F24H 15/277, F24H 15/281, F24H 15/288, F24H 15/292, F24H 15/296, F24H 15/30, F24H 15/305, F24H 15/31, F24H 15/315, F24H 15/32, F24H 15/325, F24H 15/33, F24H 15/335, F24H 15/34, F24H 15/345, F24H 15/35, F24H 15/355, F24H 15/36, F24H 15/365, F24H 15/37, F24H 15/375, F24H 15/38, F24H 15/385, F24H 15/39, F24H 15/395, F24H 15/40, F24H 15/407, F24H 15/414, F24H 15/421, F24H 15/429, F24H 15/436, F24H 15/443, F24H 15/45, F24H 15/457, F24H 15/464, F24H 15/479, F24H 15/486, F24H 15/493
C	F24D 19/1003	F24D 19/1003, F24H 15/00, F24H 15/10, F24H 15/104, F24H 15/108, F24H 15/112, F24H 15/116, F24H 15/12, F24H 15/124, F24H 15/128, F24H 15/132, F24H 15/136, F24H 15/14, F24H 15/144, F24H 15/148, F24H 15/152, F24H 15/156, F24H 15/16, F24H 15/164, F24H 15/168, F24H 15/172, F24H 15/174, F24H 15/175, F24H 15/176, F24H 15/18, F24H 15/184, F24H 15/196, F24H 15/20, F24H 15/204, F24H 15/208, F24H 15/212, F24H 15/215, F24H 15/219, F24H 15/223, F24H 15/225, F24H 15/227, F24H 15/231, F24H 15/232, F24H 15/235, F24H 15/238, F24H 15/242, F24H 15/246, F24H 15/248, F24H 15/25, F24H 15/254, F24H 15/258, F24H 15/262, F24H 15/265, F24H 15/269, F24H 15/273, F24H 15/277, F24H 15/281, F24H 15/288, F24H 15/292, F24H 15/296, F24H 15/30, F24H 15/305, F24H 15/31, F24H 15/315, F24H 15/32, F24H 15/325, F24H 15/33, F24H 15/335, F24H 15/34, F24H 15/345, F24H 15/35, F24H 15/355, F24H 15/36, F24H 15/365, F24H 15/37, F24H 15/375, F24H 15/38, F24H 15/385, F24H 15/39, F24H 15/395, F24H 15/40, F24H 15/407, F24H 15/414, F24H 15/421, F24H 15/429, F24H 15/436, F24H 15/443, F24H 15/45, F24H 15/457, F24H 15/464, F24H 15/479, F24H 15/486, F24H 15/493
C	F24D 19/1006	F24D 19/1006, F24H 15/00, F24H 15/10, F24H 15/104, F24H 15/108, F24H 15/112, F24H 15/116, F24H 15/12, F24H 15/124, F24H 15/128, F24H 15/132, F24H 15/136, F24H 15/14, F24H 15/144, F24H 15/148, F24H 15/152, F24H 15/156, F24H 15/16, F24H 15/164, F24H 15/168, F24H 15/172, F24H 15/174, F24H 15/175, F24H 15/176, F24H 15/18, F24H 15/184, F24H 15/196, F24H 15/20, F24H 15/204, F24H 15/208, F24H 15/212, F24H 15/215, F24H 15/219, F24H 15/223, F24H 15/225, F24H 15/227, F24H 15/231, F24H 15/232, F24H 15/235, F24H 15/238, F24H 15/242, F24H 15/246, F24H 15/248, F24H 15/25, F24H 15/254, F24H 15/258, F24H 15/262, F24H 15/265, F24H 15/269, F24H 15/273, F24H 15/277, F24H 15/281, F24H 15/288, F24H 15/292, F24H 15/296, F24H 15/30, F24H 15/305, F24H 15/31, F24H 15/315, F24H 15/32, F24H 15/325, F24H 15/33, F24H 15/335, F24H 15/34, F24H 15/345, F24H 15/35, F24H 15/355, F24H 15/36, F24H 15/365, F24H 15/37, F24H 15/375, F24H 15/38, F24H 15/385, F24H 15/39, F24H 15/395, F24H 15/40, F24H 15/407, F24H 15/414, F24H 15/421, F24H 15/429, F24H 15/436, F24H 15/443, F24H 15/45, F24H 15/457, F24H 15/464, F24H 15/479, F24H 15/486, F24H 15/493

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C	F24D 19/1009	F24D 19/1009, F24H 15/00, F24H 15/10, F24H 15/104, F24H 15/108, F24H 15/112, F24H 15/116, F24H 15/12, F24H 15/124, F24H 15/128, F24H 15/132, F24H 15/136, F24H 15/14, F24H 15/144, F24H 15/148, F24H 15/152, F24H 15/156, F24H 15/16, F24H 15/164, F24H 15/168, F24H 15/172, F24H 15/174, F24H 15/175, F24H 15/176, F24H 15/18, F24H 15/184, F24H 15/196, F24H 15/20, F24H 15/204, F24H 15/208, F24H 15/212, F24H 15/215, F24H 15/219, F24H 15/223, F24H 15/225, F24H 15/227, F24H 15/231, F24H 15/232, F24H 15/235, F24H 15/238, F24H 15/242, F24H 15/246, F24H 15/248, F24H 15/25, F24H 15/254, F24H 15/258, F24H 15/262, F24H 15/265, F24H 15/269, F24H 15/273, F24H 15/277, F24H 15/281, F24H 15/288, F24H 15/292, F24H 15/296, F24H 15/30, F24H 15/305, F24H 15/31, F24H 15/315, F24H 15/32, F24H 15/325, F24H 15/33, F24H 15/335, F24H 15/34, F24H 15/345, F24H 15/35, F24H 15/355, F24H 15/36, F24H 15/365, F24H 15/37, F24H 15/375, F24H 15/38, F24H 15/385, F24H 15/39, F24H 15/395, F24H 15/40, F24H 15/407, F24H 15/414, F24H 15/421, F24H 15/429, F24H 15/436, F24H 15/443, F24H 15/45, F24H 15/457, F24H 15/464, F24H 15/479, F24H 15/486, F24H 15/493
C	F24D 19/1012	F24D 19/1012, F24H 15/00, F24H 15/10, F24H 15/104, F24H 15/108, F24H 15/112, F24H 15/116, F24H 15/12, F24H 15/124, F24H 15/128, F24H 15/132, F24H 15/136, F24H 15/14, F24H 15/144, F24H 15/148, F24H 15/152, F24H 15/156, F24H 15/16, F24H 15/164, F24H 15/168, F24H 15/172, F24H 15/174, F24H 15/175, F24H 15/176, F24H 15/18, F24H 15/184, F24H 15/196, F24H 15/20, F24H 15/204, F24H 15/208, F24H 15/212, F24H 15/215, F24H 15/219, F24H 15/223, F24H 15/225, F24H 15/227, F24H 15/231, F24H 15/232, F24H 15/235, F24H 15/238, F24H 15/242, F24H 15/246, F24H 15/248, F24H 15/25, F24H 15/254, F24H 15/258, F24H 15/262, F24H 15/265, F24H 15/269, F24H 15/273, F24H 15/277, F24H 15/281, F24H 15/288, F24H 15/292, F24H 15/296, F24H 15/30, F24H 15/305, F24H 15/31, F24H 15/315, F24H 15/32, F24H 15/325, F24H 15/33, F24H 15/335, F24H 15/34, F24H 15/345, F24H 15/35, F24H 15/355, F24H 15/36, F24H 15/365, F24H 15/37, F24H 15/375, F24H 15/38, F24H 15/385, F24H 15/39, F24H 15/395, F24H 15/40, F24H 15/407, F24H 15/414, F24H 15/421, F24H 15/429, F24H 15/436, F24H 15/443, F24H 15/45, F24H 15/457, F24H 15/464, F24H 15/479, F24H 15/486, F24H 15/493
C	F24D 19/1015	F24D 19/1015, F24H 15/00, F24H 15/10, F24H 15/104, F24H 15/108, F24H 15/112, F24H 15/116, F24H 15/12, F24H 15/124, F24H 15/128, F24H 15/132, F24H 15/136, F24H 15/14, F24H 15/144, F24H 15/148, F24H 15/152, F24H 15/156, F24H 15/16, F24H 15/164, F24H 15/168, F24H 15/172, F24H 15/174, F24H 15/175, F24H 15/176, F24H 15/18, F24H 15/184, F24H 15/196, F24H 15/20, F24H 15/204, F24H 15/208, F24H 15/212, F24H 15/215, F24H 15/219, F24H 15/223, F24H 15/225, F24H 15/227, F24H 15/231, F24H 15/232, F24H 15/235, F24H 15/238, F24H 15/242, F24H 15/246, F24H 15/248, F24H 15/25, F24H 15/254, F24H 15/258, F24H 15/262, F24H 15/265, F24H 15/269, F24H 15/273, F24H 15/277, F24H 15/281, F24H 15/288, F24H 15/292, F24H 15/296, F24H 15/30, F24H 15/305, F24H 15/31, F24H 15/315, F24H 15/32, F24H 15/325, F24H 15/33, F24H 15/335, F24H 15/34, F24H 15/345, F24H 15/35, F24H 15/355, F24H 15/36, F24H 15/365, F24H 15/37, F24H 15/375, F24H 15/38, F24H 15/385, F24H 15/39, F24H 15/395, F24H 15/40, F24H 15/407, F24H 15/414, F24H 15/421, F24H 15/429, F24H 15/436, F24H 15/443, F24H 15/45, F24H 15/457, F24H 15/464, F24H 15/479, F24H 15/486, F24H 15/493

CPC NOTICE OF CHANGES 1235

DATE: JANUARY 1, 2022

PROJECT RP0758

Type*	<u>From CPC Symbol (existing)</u>	<u>To CPC Symbol(s)</u>
C	F24D 19/1018	F24D 19/1018, F24H 15/00, F24H 15/10, F24H 15/104, F24H 15/108, F24H 15/112, F24H 15/116, F24H 15/12, F24H 15/124, F24H 15/128, F24H 15/132, F24H 15/136, F24H 15/14, F24H 15/144, F24H 15/148, F24H 15/152, F24H 15/156, F24H 15/16, F24H 15/164, F24H 15/168, F24H 15/172, F24H 15/174, F24H 15/175, F24H 15/176, F24H 15/18, F24H 15/184, F24H 15/196, F24H 15/20, F24H 15/204, F24H 15/208, F24H 15/212, F24H 15/215, F24H 15/219, F24H 15/223, F24H 15/225, F24H 15/227, F24H 15/231, F24H 15/232, F24H 15/235, F24H 15/238, F24H 15/242, F24H 15/246, F24H 15/248, F24H 15/25, F24H 15/254, F24H 15/258, F24H 15/262, F24H 15/265, F24H 15/269, F24H 15/273, F24H 15/277, F24H 15/281, F24H 15/288, F24H 15/292, F24H 15/296, F24H 15/30, F24H 15/305, F24H 15/31, F24H 15/315, F24H 15/32, F24H 15/325, F24H 15/33, F24H 15/335, F24H 15/34, F24H 15/345, F24H 15/35, F24H 15/355, F24H 15/36, F24H 15/365, F24H 15/37, F24H 15/375, F24H 15/38, F24H 15/385, F24H 15/39, F24H 15/395, F24H 15/40, F24H 15/407, F24H 15/414, F24H 15/421, F24H 15/429, F24H 15/436, F24H 15/443, F24H 15/45, F24H 15/457, F24H 15/464, F24H 15/479, F24H 15/486, F24H 15/493
C	F24D 19/1021	F24D 19/1021, F24H 15/00, F24H 15/10, F24H 15/104, F24H 15/108, F24H 15/112, F24H 15/116, F24H 15/12, F24H 15/124, F24H 15/128, F24H 15/132, F24H 15/136, F24H 15/14, F24H 15/144, F24H 15/148, F24H 15/152, F24H 15/156, F24H 15/16, F24H 15/164, F24H 15/168, F24H 15/172, F24H 15/174, F24H 15/175, F24H 15/176, F24H 15/18, F24H 15/184, F24H 15/196, F24H 15/20, F24H 15/204, F24H 15/208, F24H 15/212, F24H 15/215, F24H 15/219, F24H 15/223, F24H 15/225, F24H 15/227, F24H 15/231, F24H 15/232, F24H 15/235, F24H 15/238, F24H 15/242, F24H 15/246, F24H 15/248, F24H 15/25, F24H 15/254, F24H 15/258, F24H 15/262, F24H 15/265, F24H 15/269, F24H 15/273, F24H 15/277, F24H 15/281, F24H 15/288, F24H 15/292, F24H 15/296, F24H 15/30, F24H 15/305, F24H 15/31, F24H 15/315, F24H 15/32, F24H 15/325, F24H 15/33, F24H 15/335, F24H 15/34, F24H 15/345, F24H 15/35, F24H 15/355, F24H 15/36, F24H 15/365, F24H 15/37, F24H 15/375, F24H 15/38, F24H 15/385, F24H 15/39, F24H 15/395, F24H 15/40, F24H 15/407, F24H 15/414, F24H 15/421, F24H 15/429, F24H 15/436, F24H 15/443, F24H 15/45, F24H 15/457, F24H 15/464, F24H 15/479, F24H 15/486, F24H 15/493
C	F24D 19/1024	F24D 19/1024, F24H 15/00, F24H 15/10, F24H 15/104, F24H 15/108, F24H 15/112, F24H 15/116, F24H 15/12, F24H 15/124, F24H 15/128, F24H 15/132, F24H 15/136, F24H 15/14, F24H 15/144, F24H 15/148, F24H 15/152, F24H 15/156, F24H 15/16, F24H 15/164, F24H 15/168, F24H 15/172, F24H 15/174, F24H 15/175, F24H 15/176, F24H 15/18, F24H 15/184, F24H 15/196, F24H 15/20, F24H 15/204, F24H 15/208, F24H 15/212, F24H 15/215, F24H 15/219, F24H 15/223, F24H 15/225, F24H 15/227, F24H 15/231, F24H 15/232, F24H 15/235, F24H 15/238, F24H 15/242, F24H 15/246, F24H 15/248, F24H 15/25, F24H 15/254, F24H 15/258, F24H 15/262, F24H 15/265, F24H 15/269, F24H 15/273, F24H 15/277, F24H 15/281, F24H 15/288, F24H 15/292, F24H 15/296, F24H 15/30, F24H 15/305, F24H 15/31, F24H 15/315, F24H 15/32, F24H 15/325, F24H 15/33, F24H 15/335, F24H 15/34, F24H 15/345, F24H 15/35, F24H 15/355, F24H 15/36, F24H 15/365, F24H 15/37, F24H 15/375, F24H 15/38, F24H 15/385, F24H 15/39, F24H 15/395, F24H 15/40, F24H 15/407, F24H 15/414, F24H 15/421, F24H 15/429, F24H 15/436, F24H 15/443, F24H 15/45, F24H 15/457, F24H 15/464, F24H 15/479, F24H 15/486, F24H 15/493

CPC NOTICE OF CHANGES 1235

DATE: JANUARY 1, 2022

PROJECT RP0758

Type*	From CPC Symbol (existing)	To CPC Symbol(s)
C	F24D 19/1027	F24D 19/1027, F24H 15/00, F24H 15/10, F24H 15/104, F24H 15/108, F24H 15/112, F24H 15/116, F24H 15/12, F24H 15/124, F24H 15/128, F24H 15/132, F24H 15/136, F24H 15/14, F24H 15/144, F24H 15/148, F24H 15/152, F24H 15/156, F24H 15/16, F24H 15/164, F24H 15/168, F24H 15/172, F24H 15/174, F24H 15/175, F24H 15/176, F24H 15/18, F24H 15/184, F24H 15/196, F24H 15/20, F24H 15/204, F24H 15/208, F24H 15/212, F24H 15/215, F24H 15/219, F24H 15/223, F24H 15/225, F24H 15/227, F24H 15/231, F24H 15/232, F24H 15/235, F24H 15/238, F24H 15/242, F24H 15/246, F24H 15/248, F24H 15/25, F24H 15/254, F24H 15/258, F24H 15/262, F24H 15/265, F24H 15/269, F24H 15/273, F24H 15/277, F24H 15/281, F24H 15/288, F24H 15/292, F24H 15/296, F24H 15/30, F24H 15/305, F24H 15/31, F24H 15/315, F24H 15/32, F24H 15/325, F24H 15/33, F24H 15/335, F24H 15/34, F24H 15/345, F24H 15/35, F24H 15/355, F24H 15/36, F24H 15/365, F24H 15/37, F24H 15/375, F24H 15/38, F24H 15/385, F24H 15/39, F24H 15/395, F24H 15/40, F24H 15/407, F24H 15/414, F24H 15/421, F24H 15/429, F24H 15/436, F24H 15/443, F24H 15/45, F24H 15/457, F24H 15/464, F24H 15/479, F24H 15/486, F24H 15/493
C	F24D 19/103	F24D 19/103, F24H 15/00, F24H 15/10, F24H 15/104, F24H 15/108, F24H 15/112, F24H 15/116, F24H 15/12, F24H 15/124, F24H 15/128, F24H 15/132, F24H 15/136, F24H 15/14, F24H 15/144, F24H 15/148, F24H 15/152, F24H 15/156, F24H 15/16, F24H 15/164, F24H 15/168, F24H 15/172, F24H 15/174, F24H 15/175, F24H 15/176, F24H 15/18, F24H 15/184, F24H 15/196, F24H 15/20, F24H 15/204, F24H 15/208, F24H 15/212, F24H 15/215, F24H 15/219, F24H 15/223, F24H 15/225, F24H 15/227, F24H 15/231, F24H 15/232, F24H 15/235, F24H 15/238, F24H 15/242, F24H 15/246, F24H 15/248, F24H 15/25, F24H 15/254, F24H 15/258, F24H 15/262, F24H 15/265, F24H 15/269, F24H 15/273, F24H 15/277, F24H 15/281, F24H 15/288, F24H 15/292, F24H 15/296, F24H 15/30, F24H 15/305, F24H 15/31, F24H 15/315, F24H 15/32, F24H 15/325, F24H 15/33, F24H 15/335, F24H 15/34, F24H 15/345, F24H 15/35, F24H 15/355, F24H 15/36, F24H 15/365, F24H 15/37, F24H 15/375, F24H 15/38, F24H 15/385, F24H 15/39, F24H 15/395, F24H 15/40, F24H 15/407, F24H 15/414, F24H 15/421, F24H 15/429, F24H 15/436, F24H 15/443, F24H 15/45, F24H 15/457, F24H 15/464, F24H 15/479, F24H 15/486, F24H 15/493
C	F24D 19/1033	F24D 19/1033, F24H 15/00, F24H 15/10, F24H 15/104, F24H 15/108, F24H 15/112, F24H 15/116, F24H 15/12, F24H 15/124, F24H 15/128, F24H 15/132, F24H 15/136, F24H 15/14, F24H 15/144, F24H 15/148, F24H 15/152, F24H 15/156, F24H 15/16, F24H 15/164, F24H 15/168, F24H 15/172, F24H 15/174, F24H 15/175, F24H 15/176, F24H 15/18, F24H 15/184, F24H 15/196, F24H 15/20, F24H 15/204, F24H 15/208, F24H 15/212, F24H 15/215, F24H 15/219, F24H 15/223, F24H 15/225, F24H 15/227, F24H 15/231, F24H 15/232, F24H 15/235, F24H 15/238, F24H 15/242, F24H 15/246, F24H 15/248, F24H 15/25, F24H 15/254, F24H 15/258, F24H 15/262, F24H 15/265, F24H 15/269, F24H 15/273, F24H 15/277, F24H 15/281, F24H 15/288, F24H 15/292, F24H 15/296, F24H 15/30, F24H 15/305, F24H 15/31, F24H 15/315, F24H 15/32, F24H 15/325, F24H 15/33, F24H 15/335, F24H 15/34, F24H 15/345, F24H 15/35, F24H 15/355, F24H 15/36, F24H 15/365, F24H 15/37, F24H 15/375, F24H 15/38, F24H 15/385, F24H 15/39, F24H 15/395, F24H 15/40, F24H 15/407, F24H 15/414, F24H 15/421, F24H 15/429, F24H 15/436, F24H 15/443, F24H 15/45, F24H 15/457, F24H 15/464, F24H 15/479, F24H 15/486, F24H 15/493

CPC NOTICE OF CHANGES 1235

DATE: JANUARY 1, 2022

PROJECT RP0758

Type*	<u>From CPC Symbol (existing)</u>	<u>To CPC Symbol(s)</u>
C	F24D 19/1036	F24D 19/1036, F24H 15/00, F24H 15/10, F24H 15/104, F24H 15/108, F24H 15/112, F24H 15/116, F24H 15/12, F24H 15/124, F24H 15/128, F24H 15/132, F24H 15/136, F24H 15/14, F24H 15/144, F24H 15/148, F24H 15/152, F24H 15/156, F24H 15/16, F24H 15/164, F24H 15/168, F24H 15/172, F24H 15/174, F24H 15/175, F24H 15/176, F24H 15/18, F24H 15/184, F24H 15/196, F24H 15/20, F24H 15/204, F24H 15/208, F24H 15/212, F24H 15/215, F24H 15/219, F24H 15/223, F24H 15/225, F24H 15/227, F24H 15/231, F24H 15/232, F24H 15/235, F24H 15/238, F24H 15/242, F24H 15/246, F24H 15/248, F24H 15/25, F24H 15/254, F24H 15/258, F24H 15/262, F24H 15/265, F24H 15/269, F24H 15/273, F24H 15/277, F24H 15/281, F24H 15/288, F24H 15/292, F24H 15/296, F24H 15/30, F24H 15/305, F24H 15/31, F24H 15/315, F24H 15/32, F24H 15/325, F24H 15/33, F24H 15/335, F24H 15/34, F24H 15/345, F24H 15/35, F24H 15/355, F24H 15/36, F24H 15/365, F24H 15/37, F24H 15/375, F24H 15/38, F24H 15/385, F24H 15/39, F24H 15/395, F24H 15/40, F24H 15/407, F24H 15/414, F24H 15/421, F24H 15/429, F24H 15/436, F24H 15/443, F24H 15/45, F24H 15/457, F24H 15/464, F24H 15/479, F24H 15/486, F24H 15/493
C	F24D 19/1039	F24D 19/1039, F24H 15/00, F24H 15/10, F24H 15/104, F24H 15/108, F24H 15/112, F24H 15/116, F24H 15/12, F24H 15/124, F24H 15/128, F24H 15/132, F24H 15/136, F24H 15/14, F24H 15/144, F24H 15/148, F24H 15/152, F24H 15/156, F24H 15/16, F24H 15/164, F24H 15/168, F24H 15/172, F24H 15/174, F24H 15/175, F24H 15/176, F24H 15/18, F24H 15/184, F24H 15/196, F24H 15/20, F24H 15/204, F24H 15/208, F24H 15/212, F24H 15/215, F24H 15/219, F24H 15/223, F24H 15/225, F24H 15/227, F24H 15/231, F24H 15/232, F24H 15/235, F24H 15/238, F24H 15/242, F24H 15/246, F24H 15/248, F24H 15/25, F24H 15/254, F24H 15/258, F24H 15/262, F24H 15/265, F24H 15/269, F24H 15/273, F24H 15/277, F24H 15/281, F24H 15/288, F24H 15/292, F24H 15/296, F24H 15/30, F24H 15/305, F24H 15/31, F24H 15/315, F24H 15/32, F24H 15/325, F24H 15/33, F24H 15/335, F24H 15/34, F24H 15/345, F24H 15/35, F24H 15/355, F24H 15/36, F24H 15/365, F24H 15/37, F24H 15/375, F24H 15/38, F24H 15/385, F24H 15/39, F24H 15/395, F24H 15/40, F24H 15/407, F24H 15/414, F24H 15/421, F24H 15/429, F24H 15/436, F24H 15/443, F24H 15/45, F24H 15/457, F24H 15/464, F24H 15/479, F24H 15/486, F24H 15/493
C	F24D 19/1042	F24D 19/1042, F24H 15/00, F24H 15/10, F24H 15/104, F24H 15/108, F24H 15/112, F24H 15/116, F24H 15/12, F24H 15/124, F24H 15/128, F24H 15/132, F24H 15/136, F24H 15/14, F24H 15/144, F24H 15/148, F24H 15/152, F24H 15/156, F24H 15/16, F24H 15/164, F24H 15/168, F24H 15/172, F24H 15/174, F24H 15/175, F24H 15/176, F24H 15/18, F24H 15/184, F24H 15/196, F24H 15/20, F24H 15/204, F24H 15/208, F24H 15/212, F24H 15/215, F24H 15/219, F24H 15/223, F24H 15/225, F24H 15/227, F24H 15/231, F24H 15/232, F24H 15/235, F24H 15/238, F24H 15/242, F24H 15/246, F24H 15/248, F24H 15/25, F24H 15/254, F24H 15/258, F24H 15/262, F24H 15/265, F24H 15/269, F24H 15/273, F24H 15/277, F24H 15/281, F24H 15/288, F24H 15/292, F24H 15/296, F24H 15/30, F24H 15/305, F24H 15/31, F24H 15/315, F24H 15/32, F24H 15/325, F24H 15/33, F24H 15/335, F24H 15/34, F24H 15/345, F24H 15/35, F24H 15/355, F24H 15/36, F24H 15/365, F24H 15/37, F24H 15/375, F24H 15/38, F24H 15/385, F24H 15/39, F24H 15/395, F24H 15/40, F24H 15/407, F24H 15/414, F24H 15/421, F24H 15/429, F24H 15/436, F24H 15/443, F24H 15/45, F24H 15/457, F24H 15/464, F24H 15/479, F24H 15/486, F24H 15/493

CPC NOTICE OF CHANGES 1235

DATE: JANUARY 1, 2022

PROJECT RP0758

Type*	<u>From CPC Symbol (existing)</u>	<u>To CPC Symbol(s)</u>
C	F24D 19/1045	F24D 19/1045, F24H 15/00, F24H 15/10, F24H 15/104, F24H 15/108, F24H 15/112, F24H 15/116, F24H 15/12, F24H 15/124, F24H 15/128, F24H 15/132, F24H 15/136, F24H 15/14, F24H 15/144, F24H 15/148, F24H 15/152, F24H 15/156, F24H 15/16, F24H 15/164, F24H 15/168, F24H 15/172, F24H 15/174, F24H 15/175, F24H 15/176, F24H 15/18, F24H 15/184, F24H 15/196, F24H 15/20, F24H 15/204, F24H 15/208, F24H 15/212, F24H 15/215, F24H 15/219, F24H 15/223, F24H 15/225, F24H 15/227, F24H 15/231, F24H 15/232, F24H 15/235, F24H 15/238, F24H 15/242, F24H 15/246, F24H 15/248, F24H 15/25, F24H 15/254, F24H 15/258, F24H 15/262, F24H 15/265, F24H 15/269, F24H 15/273, F24H 15/277, F24H 15/281, F24H 15/288, F24H 15/292, F24H 15/296, F24H 15/30, F24H 15/305, F24H 15/31, F24H 15/315, F24H 15/32, F24H 15/325, F24H 15/33, F24H 15/335, F24H 15/34, F24H 15/345, F24H 15/35, F24H 15/355, F24H 15/36, F24H 15/365, F24H 15/37, F24H 15/375, F24H 15/38, F24H 15/385, F24H 15/39, F24H 15/395, F24H 15/40, F24H 15/407, F24H 15/414, F24H 15/421, F24H 15/429, F24H 15/436, F24H 15/443, F24H 15/45, F24H 15/457, F24H 15/464, F24H 15/479, F24H 15/486, F24H 15/493
C	F24D 19/1048	F24D 19/1048, F24H 15/00, F24H 15/10, F24H 15/104, F24H 15/108, F24H 15/112, F24H 15/116, F24H 15/12, F24H 15/124, F24H 15/128, F24H 15/132, F24H 15/136, F24H 15/14, F24H 15/144, F24H 15/148, F24H 15/152, F24H 15/156, F24H 15/16, F24H 15/164, F24H 15/168, F24H 15/172, F24H 15/174, F24H 15/175, F24H 15/176, F24H 15/18, F24H 15/184, F24H 15/196, F24H 15/20, F24H 15/204, F24H 15/208, F24H 15/212, F24H 15/215, F24H 15/219, F24H 15/223, F24H 15/225, F24H 15/227, F24H 15/231, F24H 15/232, F24H 15/235, F24H 15/238, F24H 15/242, F24H 15/246, F24H 15/248, F24H 15/25, F24H 15/254, F24H 15/258, F24H 15/262, F24H 15/265, F24H 15/269, F24H 15/273, F24H 15/277, F24H 15/281, F24H 15/288, F24H 15/292, F24H 15/296, F24H 15/30, F24H 15/305, F24H 15/31, F24H 15/315, F24H 15/32, F24H 15/325, F24H 15/33, F24H 15/335, F24H 15/34, F24H 15/345, F24H 15/35, F24H 15/355, F24H 15/36, F24H 15/365, F24H 15/37, F24H 15/375, F24H 15/38, F24H 15/385, F24H 15/39, F24H 15/395, F24H 15/40, F24H 15/407, F24H 15/414, F24H 15/421, F24H 15/429, F24H 15/436, F24H 15/443, F24H 15/45, F24H 15/457, F24H 15/464, F24H 15/479, F24H 15/486, F24H 15/493
C	F24D 19/1051	F24D 19/1051, F24H 15/00, F24H 15/10, F24H 15/104, F24H 15/108, F24H 15/112, F24H 15/116, F24H 15/12, F24H 15/124, F24H 15/128, F24H 15/132, F24H 15/136, F24H 15/14, F24H 15/144, F24H 15/148, F24H 15/152, F24H 15/156, F24H 15/16, F24H 15/164, F24H 15/168, F24H 15/172, F24H 15/174, F24H 15/175, F24H 15/176, F24H 15/18, F24H 15/184, F24H 15/196, F24H 15/20, F24H 15/204, F24H 15/208, F24H 15/212, F24H 15/215, F24H 15/219, F24H 15/223, F24H 15/225, F24H 15/227, F24H 15/231, F24H 15/232, F24H 15/235, F24H 15/238, F24H 15/242, F24H 15/246, F24H 15/248, F24H 15/25, F24H 15/254, F24H 15/258, F24H 15/262, F24H 15/265, F24H 15/269, F24H 15/273, F24H 15/277, F24H 15/281, F24H 15/288, F24H 15/292, F24H 15/296, F24H 15/30, F24H 15/305, F24H 15/31, F24H 15/315, F24H 15/32, F24H 15/325, F24H 15/33, F24H 15/335, F24H 15/34, F24H 15/345, F24H 15/35, F24H 15/355, F24H 15/36, F24H 15/365, F24H 15/37, F24H 15/375, F24H 15/38, F24H 15/385, F24H 15/39, F24H 15/395, F24H 15/40, F24H 15/407, F24H 15/414, F24H 15/421, F24H 15/429, F24H 15/436, F24H 15/443, F24H 15/45, F24H 15/457, F24H 15/464, F24H 15/479, F24H 15/486, F24H 15/493

CPC NOTICE OF CHANGES 1235

DATE: JANUARY 1, 2022

PROJECT RP0758

Type*	<u>From CPC Symbol (existing)</u>	<u>To CPC Symbol(s)</u>
C	F24D 19/1054	F24D 19/1054, F24H 15/00, F24H 15/10, F24H 15/104, F24H 15/108, F24H 15/112, F24H 15/116, F24H 15/12, F24H 15/124, F24H 15/128, F24H 15/132, F24H 15/136, F24H 15/14, F24H 15/144, F24H 15/148, F24H 15/152, F24H 15/156, F24H 15/16, F24H 15/164, F24H 15/168, F24H 15/172, F24H 15/174, F24H 15/175, F24H 15/176, F24H 15/18, F24H 15/184, F24H 15/196, F24H 15/20, F24H 15/204, F24H 15/208, F24H 15/212, F24H 15/215, F24H 15/219, F24H 15/223, F24H 15/225, F24H 15/227, F24H 15/231, F24H 15/232, F24H 15/235, F24H 15/238, F24H 15/242, F24H 15/246, F24H 15/248, F24H 15/25, F24H 15/254, F24H 15/258, F24H 15/262, F24H 15/265, F24H 15/269, F24H 15/273, F24H 15/277, F24H 15/281, F24H 15/288, F24H 15/292, F24H 15/296, F24H 15/30, F24H 15/305, F24H 15/31, F24H 15/315, F24H 15/32, F24H 15/325, F24H 15/33, F24H 15/335, F24H 15/34, F24H 15/345, F24H 15/35, F24H 15/355, F24H 15/36, F24H 15/365, F24H 15/37, F24H 15/375, F24H 15/38, F24H 15/385, F24H 15/39, F24H 15/395, F24H 15/40, F24H 15/407, F24H 15/414, F24H 15/421, F24H 15/429, F24H 15/436, F24H 15/443, F24H 15/45, F24H 15/457, F24H 15/464, F24H 15/479, F24H 15/486, F24H 15/493
C	F24D 19/1057	F24D 19/1057, F24H 15/00, F24H 15/10, F24H 15/104, F24H 15/108, F24H 15/112, F24H 15/116, F24H 15/12, F24H 15/124, F24H 15/128, F24H 15/132, F24H 15/136, F24H 15/14, F24H 15/144, F24H 15/148, F24H 15/152, F24H 15/156, F24H 15/16, F24H 15/164, F24H 15/168, F24H 15/172, F24H 15/174, F24H 15/175, F24H 15/176, F24H 15/18, F24H 15/184, F24H 15/196, F24H 15/20, F24H 15/204, F24H 15/208, F24H 15/212, F24H 15/215, F24H 15/219, F24H 15/223, F24H 15/225, F24H 15/227, F24H 15/231, F24H 15/232, F24H 15/235, F24H 15/238, F24H 15/242, F24H 15/246, F24H 15/248, F24H 15/25, F24H 15/254, F24H 15/258, F24H 15/262, F24H 15/265, F24H 15/269, F24H 15/273, F24H 15/277, F24H 15/281, F24H 15/288, F24H 15/292, F24H 15/296, F24H 15/30, F24H 15/305, F24H 15/31, F24H 15/315, F24H 15/32, F24H 15/325, F24H 15/33, F24H 15/335, F24H 15/34, F24H 15/345, F24H 15/35, F24H 15/355, F24H 15/36, F24H 15/365, F24H 15/37, F24H 15/375, F24H 15/38, F24H 15/385, F24H 15/39, F24H 15/395, F24H 15/40, F24H 15/407, F24H 15/414, F24H 15/421, F24H 15/429, F24H 15/436, F24H 15/443, F24H 15/45, F24H 15/457, F24H 15/464, F24H 15/479, F24H 15/486, F24H 15/493
C	F24D 19/106	F24D 19/106, F24H 15/00, F24H 15/10, F24H 15/104, F24H 15/108, F24H 15/112, F24H 15/116, F24H 15/12, F24H 15/124, F24H 15/128, F24H 15/132, F24H 15/136, F24H 15/14, F24H 15/144, F24H 15/148, F24H 15/152, F24H 15/156, F24H 15/16, F24H 15/164, F24H 15/168, F24H 15/172, F24H 15/174, F24H 15/175, F24H 15/176, F24H 15/18, F24H 15/184, F24H 15/196, F24H 15/20, F24H 15/204, F24H 15/208, F24H 15/212, F24H 15/215, F24H 15/219, F24H 15/223, F24H 15/225, F24H 15/227, F24H 15/231, F24H 15/232, F24H 15/235, F24H 15/238, F24H 15/242, F24H 15/246, F24H 15/248, F24H 15/25, F24H 15/254, F24H 15/258, F24H 15/262, F24H 15/265, F24H 15/269, F24H 15/273, F24H 15/277, F24H 15/281, F24H 15/288, F24H 15/292, F24H 15/296, F24H 15/30, F24H 15/305, F24H 15/31, F24H 15/315, F24H 15/32, F24H 15/325, F24H 15/33, F24H 15/335, F24H 15/34, F24H 15/345, F24H 15/35, F24H 15/355, F24H 15/36, F24H 15/365, F24H 15/37, F24H 15/375, F24H 15/38, F24H 15/385, F24H 15/39, F24H 15/395, F24H 15/40, F24H 15/407, F24H 15/414, F24H 15/421, F24H 15/429, F24H 15/436, F24H 15/443, F24H 15/45, F24H 15/457, F24H 15/464, F24H 15/479, F24H 15/486, F24H 15/493

CPC NOTICE OF CHANGES 1235

DATE: JANUARY 1, 2022

PROJECT RP0758

Type*	From CPC Symbol (existing)	To CPC Symbol(s)
C	F24D 19/1063	F24D 19/1063, F24H 15/00, F24H 15/10, F24H 15/104, F24H 15/108, F24H 15/112, F24H 15/116, F24H 15/12, F24H 15/124, F24H 15/128, F24H 15/132, F24H 15/136, F24H 15/14, F24H 15/144, F24H 15/148, F24H 15/152, F24H 15/156, F24H 15/16, F24H 15/164, F24H 15/168, F24H 15/172, F24H 15/174, F24H 15/175, F24H 15/176, F24H 15/18, F24H 15/184, F24H 15/196, F24H 15/20, F24H 15/204, F24H 15/208, F24H 15/212, F24H 15/215, F24H 15/219, F24H 15/223, F24H 15/225, F24H 15/227, F24H 15/231, F24H 15/232, F24H 15/235, F24H 15/238, F24H 15/242, F24H 15/246, F24H 15/248, F24H 15/25, F24H 15/254, F24H 15/258, F24H 15/262, F24H 15/265, F24H 15/269, F24H 15/273, F24H 15/277, F24H 15/281, F24H 15/288, F24H 15/292, F24H 15/296, F24H 15/30, F24H 15/305, F24H 15/31, F24H 15/315, F24H 15/32, F24H 15/325, F24H 15/33, F24H 15/335, F24H 15/34, F24H 15/345, F24H 15/35, F24H 15/355, F24H 15/36, F24H 15/365, F24H 15/37, F24H 15/375, F24H 15/38, F24H 15/385, F24H 15/39, F24H 15/395, F24H 15/40, F24H 15/407, F24H 15/414, F24H 15/421, F24H 15/429, F24H 15/436, F24H 15/443, F24H 15/45, F24H 15/457, F24H 15/464, F24H 15/479, F24H 15/486, F24H 15/493
C	F24D 19/1066	F24D 19/1066, F24H 15/00, F24H 15/10, F24H 15/104, F24H 15/108, F24H 15/112, F24H 15/116, F24H 15/12, F24H 15/124, F24H 15/128, F24H 15/132, F24H 15/136, F24H 15/14, F24H 15/144, F24H 15/148, F24H 15/152, F24H 15/156, F24H 15/16, F24H 15/164, F24H 15/168, F24H 15/172, F24H 15/174, F24H 15/175, F24H 15/176, F24H 15/18, F24H 15/184, F24H 15/196, F24H 15/20, F24H 15/204, F24H 15/208, F24H 15/212, F24H 15/215, F24H 15/219, F24H 15/223, F24H 15/225, F24H 15/227, F24H 15/231, F24H 15/232, F24H 15/235, F24H 15/238, F24H 15/242, F24H 15/246, F24H 15/248, F24H 15/25, F24H 15/254, F24H 15/258, F24H 15/262, F24H 15/265, F24H 15/269, F24H 15/273, F24H 15/277, F24H 15/281, F24H 15/288, F24H 15/292, F24H 15/296, F24H 15/30, F24H 15/305, F24H 15/31, F24H 15/315, F24H 15/32, F24H 15/325, F24H 15/33, F24H 15/335, F24H 15/34, F24H 15/345, F24H 15/35, F24H 15/355, F24H 15/36, F24H 15/365, F24H 15/37, F24H 15/375, F24H 15/38, F24H 15/385, F24H 15/39, F24H 15/395, F24H 15/40, F24H 15/407, F24H 15/414, F24H 15/421, F24H 15/429, F24H 15/436, F24H 15/443, F24H 15/45, F24H 15/457, F24H 15/464, F24H 15/479, F24H 15/486, F24H 15/493
C	F24D 19/1069	F24D 19/1069, F24H 15/00, F24H 15/10, F24H 15/104, F24H 15/108, F24H 15/112, F24H 15/116, F24H 15/12, F24H 15/124, F24H 15/128, F24H 15/132, F24H 15/136, F24H 15/14, F24H 15/144, F24H 15/148, F24H 15/152, F24H 15/156, F24H 15/16, F24H 15/164, F24H 15/168, F24H 15/172, F24H 15/174, F24H 15/175, F24H 15/176, F24H 15/18, F24H 15/184, F24H 15/196, F24H 15/20, F24H 15/204, F24H 15/208, F24H 15/212, F24H 15/215, F24H 15/219, F24H 15/223, F24H 15/225, F24H 15/227, F24H 15/231, F24H 15/232, F24H 15/235, F24H 15/238, F24H 15/242, F24H 15/246, F24H 15/248, F24H 15/25, F24H 15/254, F24H 15/258, F24H 15/262, F24H 15/265, F24H 15/269, F24H 15/273, F24H 15/277, F24H 15/281, F24H 15/288, F24H 15/292, F24H 15/296, F24H 15/30, F24H 15/305, F24H 15/31, F24H 15/315, F24H 15/32, F24H 15/325, F24H 15/33, F24H 15/335, F24H 15/34, F24H 15/345, F24H 15/35, F24H 15/355, F24H 15/36, F24H 15/365, F24H 15/37, F24H 15/375, F24H 15/38, F24H 15/385, F24H 15/39, F24H 15/395, F24H 15/40, F24H 15/407, F24H 15/414, F24H 15/421, F24H 15/429, F24H 15/436, F24H 15/443, F24H 15/45, F24H 15/457, F24H 15/464, F24H 15/479, F24H 15/486, F24H 15/493

CPC NOTICE OF CHANGES 1235

DATE: JANUARY 1, 2022

PROJECT RP0758

Type*	From CPC Symbol (existing)	To CPC Symbol(s)
C	F24D 19/1072	F24D 19/1072, F24H 15/00, F24H 15/10, F24H 15/104, F24H 15/108, F24H 15/112, F24H 15/116, F24H 15/12, F24H 15/124, F24H 15/128, F24H 15/132, F24H 15/136, F24H 15/14, F24H 15/144, F24H 15/148, F24H 15/152, F24H 15/156, F24H 15/16, F24H 15/164, F24H 15/168, F24H 15/172, F24H 15/174, F24H 15/175, F24H 15/176, F24H 15/18, F24H 15/184, F24H 15/196, F24H 15/20, F24H 15/204, F24H 15/208, F24H 15/212, F24H 15/215, F24H 15/219, F24H 15/223, F24H 15/225, F24H 15/227, F24H 15/231, F24H 15/232, F24H 15/235, F24H 15/238, F24H 15/242, F24H 15/246, F24H 15/248, F24H 15/25, F24H 15/254, F24H 15/258, F24H 15/262, F24H 15/265, F24H 15/269, F24H 15/273, F24H 15/277, F24H 15/281, F24H 15/288, F24H 15/292, F24H 15/296, F24H 15/30, F24H 15/305, F24H 15/31, F24H 15/315, F24H 15/32, F24H 15/325, F24H 15/33, F24H 15/335, F24H 15/34, F24H 15/345, F24H 15/35, F24H 15/355, F24H 15/36, F24H 15/365, F24H 15/37, F24H 15/375, F24H 15/38, F24H 15/385, F24H 15/39, F24H 15/395, F24H 15/40, F24H 15/407, F24H 15/414, F24H 15/421, F24H 15/429, F24H 15/436, F24H 15/443, F24H 15/45, F24H 15/457, F24H 15/464, F24H 15/479, F24H 15/486, F24H 15/493
C	F24D 19/1075	F24D 19/1075, F24H 15/00, F24H 15/10, F24H 15/104, F24H 15/108, F24H 15/112, F24H 15/116, F24H 15/12, F24H 15/124, F24H 15/128, F24H 15/132, F24H 15/136, F24H 15/14, F24H 15/144, F24H 15/148, F24H 15/152, F24H 15/156, F24H 15/16, F24H 15/164, F24H 15/168, F24H 15/172, F24H 15/174, F24H 15/175, F24H 15/176, F24H 15/18, F24H 15/184, F24H 15/196, F24H 15/20, F24H 15/204, F24H 15/208, F24H 15/212, F24H 15/215, F24H 15/219, F24H 15/223, F24H 15/225, F24H 15/227, F24H 15/231, F24H 15/232, F24H 15/235, F24H 15/238, F24H 15/242, F24H 15/246, F24H 15/248, F24H 15/25, F24H 15/254, F24H 15/258, F24H 15/262, F24H 15/265, F24H 15/269, F24H 15/273, F24H 15/277, F24H 15/281, F24H 15/288, F24H 15/292, F24H 15/296, F24H 15/30, F24H 15/305, F24H 15/31, F24H 15/315, F24H 15/32, F24H 15/325, F24H 15/33, F24H 15/335, F24H 15/34, F24H 15/345, F24H 15/35, F24H 15/355, F24H 15/36, F24H 15/365, F24H 15/37, F24H 15/375, F24H 15/38, F24H 15/385, F24H 15/39, F24H 15/395, F24H 15/40, F24H 15/407, F24H 15/414, F24H 15/421, F24H 15/429, F24H 15/436, F24H 15/443, F24H 15/45, F24H 15/457, F24H 15/464, F24H 15/479, F24H 15/486, F24H 15/493
C	F24D 19/1078	F24D 19/1078, F24H 15/00, F24H 15/10, F24H 15/104, F24H 15/108, F24H 15/112, F24H 15/116, F24H 15/12, F24H 15/124, F24H 15/128, F24H 15/132, F24H 15/136, F24H 15/14, F24H 15/144, F24H 15/148, F24H 15/152, F24H 15/156, F24H 15/16, F24H 15/164, F24H 15/168, F24H 15/172, F24H 15/174, F24H 15/175, F24H 15/176, F24H 15/18, F24H 15/184, F24H 15/196, F24H 15/20, F24H 15/204, F24H 15/208, F24H 15/212, F24H 15/215, F24H 15/219, F24H 15/223, F24H 15/225, F24H 15/227, F24H 15/231, F24H 15/232, F24H 15/235, F24H 15/238, F24H 15/242, F24H 15/246, F24H 15/248, F24H 15/25, F24H 15/254, F24H 15/258, F24H 15/262, F24H 15/265, F24H 15/269, F24H 15/273, F24H 15/277, F24H 15/281, F24H 15/288, F24H 15/292, F24H 15/296, F24H 15/30, F24H 15/305, F24H 15/31, F24H 15/315, F24H 15/32, F24H 15/325, F24H 15/33, F24H 15/335, F24H 15/34, F24H 15/345, F24H 15/35, F24H 15/355, F24H 15/36, F24H 15/365, F24H 15/37, F24H 15/375, F24H 15/38, F24H 15/385, F24H 15/39, F24H 15/395, F24H 15/40, F24H 15/407, F24H 15/414, F24H 15/421, F24H 15/429, F24H 15/436, F24H 15/443, F24H 15/45, F24H 15/457, F24H 15/464, F24H 15/479, F24H 15/486, F24H 15/493

CPC NOTICE OF CHANGES 1235

DATE: JANUARY 1, 2022

PROJECT RP0758

Type*	<u>From CPC Symbol (existing)</u>	<u>To CPC Symbol(s)</u>
C	F24D 19/1081	F24D 19/1081, F24H 15/00, F24H 15/10, F24H 15/104, F24H 15/108, F24H 15/112, F24H 15/116, F24H 15/12, F24H 15/124, F24H 15/128, F24H 15/132, F24H 15/136, F24H 15/14, F24H 15/144, F24H 15/148, F24H 15/152, F24H 15/156, F24H 15/16, F24H 15/164, F24H 15/168, F24H 15/172, F24H 15/174, F24H 15/175, F24H 15/176, F24H 15/18, F24H 15/184, F24H 15/196, F24H 15/20, F24H 15/204, F24H 15/208, F24H 15/212, F24H 15/215, F24H 15/219, F24H 15/223, F24H 15/225, F24H 15/227, F24H 15/231, F24H 15/232, F24H 15/235, F24H 15/238, F24H 15/242, F24H 15/246, F24H 15/248, F24H 15/25, F24H 15/254, F24H 15/258, F24H 15/262, F24H 15/265, F24H 15/269, F24H 15/273, F24H 15/277, F24H 15/281, F24H 15/288, F24H 15/292, F24H 15/296, F24H 15/30, F24H 15/305, F24H 15/31, F24H 15/315, F24H 15/32, F24H 15/325, F24H 15/33, F24H 15/335, F24H 15/34, F24H 15/345, F24H 15/35, F24H 15/355, F24H 15/36, F24H 15/365, F24H 15/37, F24H 15/375, F24H 15/38, F24H 15/385, F24H 15/39, F24H 15/395, F24H 15/40, F24H 15/407, F24H 15/414, F24H 15/421, F24H 15/429, F24H 15/436, F24H 15/443, F24H 15/45, F24H 15/457, F24H 15/464, F24H 15/479, F24H 15/486, F24H 15/493
C	F24D 19/1084	F24D 19/1084, F24H 15/00, F24H 15/10, F24H 15/104, F24H 15/108, F24H 15/112, F24H 15/116, F24H 15/12, F24H 15/124, F24H 15/128, F24H 15/132, F24H 15/136, F24H 15/14, F24H 15/144, F24H 15/148, F24H 15/152, F24H 15/156, F24H 15/16, F24H 15/164, F24H 15/168, F24H 15/172, F24H 15/174, F24H 15/175, F24H 15/176, F24H 15/18, F24H 15/184, F24H 15/196, F24H 15/20, F24H 15/204, F24H 15/208, F24H 15/212, F24H 15/215, F24H 15/219, F24H 15/223, F24H 15/225, F24H 15/227, F24H 15/231, F24H 15/232, F24H 15/235, F24H 15/238, F24H 15/242, F24H 15/246, F24H 15/248, F24H 15/25, F24H 15/254, F24H 15/258, F24H 15/262, F24H 15/265, F24H 15/269, F24H 15/273, F24H 15/277, F24H 15/281, F24H 15/288, F24H 15/292, F24H 15/296, F24H 15/30, F24H 15/305, F24H 15/31, F24H 15/315, F24H 15/32, F24H 15/325, F24H 15/33, F24H 15/335, F24H 15/34, F24H 15/345, F24H 15/35, F24H 15/355, F24H 15/36, F24H 15/365, F24H 15/37, F24H 15/375, F24H 15/38, F24H 15/385, F24H 15/39, F24H 15/395, F24H 15/40, F24H 15/407, F24H 15/414, F24H 15/421, F24H 15/429, F24H 15/436, F24H 15/443, F24H 15/45, F24H 15/457, F24H 15/464, F24H 15/479, F24H 15/486, F24H 15/493
C	F24D 19/1087	F24D 19/1087, F24H 15/00, F24H 15/10, F24H 15/104, F24H 15/108, F24H 15/112, F24H 15/116, F24H 15/12, F24H 15/124, F24H 15/128, F24H 15/132, F24H 15/136, F24H 15/14, F24H 15/144, F24H 15/148, F24H 15/152, F24H 15/156, F24H 15/16, F24H 15/164, F24H 15/168, F24H 15/172, F24H 15/174, F24H 15/175, F24H 15/176, F24H 15/18, F24H 15/184, F24H 15/196, F24H 15/20, F24H 15/204, F24H 15/208, F24H 15/212, F24H 15/215, F24H 15/219, F24H 15/223, F24H 15/225, F24H 15/227, F24H 15/231, F24H 15/232, F24H 15/235, F24H 15/238, F24H 15/242, F24H 15/246, F24H 15/248, F24H 15/25, F24H 15/254, F24H 15/258, F24H 15/262, F24H 15/265, F24H 15/269, F24H 15/273, F24H 15/277, F24H 15/281, F24H 15/288, F24H 15/292, F24H 15/296, F24H 15/30, F24H 15/305, F24H 15/31, F24H 15/315, F24H 15/32, F24H 15/325, F24H 15/33, F24H 15/335, F24H 15/34, F24H 15/345, F24H 15/35, F24H 15/355, F24H 15/36, F24H 15/365, F24H 15/37, F24H 15/375, F24H 15/38, F24H 15/385, F24H 15/39, F24H 15/395, F24H 15/40, F24H 15/407, F24H 15/414, F24H 15/421, F24H 15/429, F24H 15/436, F24H 15/443, F24H 15/45, F24H 15/457, F24H 15/464, F24H 15/479, F24H 15/486, F24H 15/493

CPC NOTICE OF CHANGES 1235

DATE: JANUARY 1, 2022

PROJECT RP0758

Type*	From CPC Symbol (existing)	To CPC Symbol(s)
C	F24D 19/109	F24D 19/109, F24H 15/00, F24H 15/10, F24H 15/104, F24H 15/108, F24H 15/112, F24H 15/116, F24H 15/12, F24H 15/124, F24H 15/128, F24H 15/132, F24H 15/136, F24H 15/14, F24H 15/144, F24H 15/148, F24H 15/152, F24H 15/156, F24H 15/16, F24H 15/164, F24H 15/168, F24H 15/172, F24H 15/174, F24H 15/175, F24H 15/176, F24H 15/18, F24H 15/184, F24H 15/196, F24H 15/20, F24H 15/204, F24H 15/208, F24H 15/212, F24H 15/215, F24H 15/219, F24H 15/223, F24H 15/225, F24H 15/227, F24H 15/231, F24H 15/232, F24H 15/235, F24H 15/238, F24H 15/242, F24H 15/246, F24H 15/248, F24H 15/25, F24H 15/254, F24H 15/258, F24H 15/262, F24H 15/265, F24H 15/269, F24H 15/273, F24H 15/277, F24H 15/281, F24H 15/288, F24H 15/292, F24H 15/296, F24H 15/30, F24H 15/305, F24H 15/31, F24H 15/315, F24H 15/32, F24H 15/325, F24H 15/33, F24H 15/335, F24H 15/34, F24H 15/345, F24H 15/35, F24H 15/355, F24H 15/36, F24H 15/365, F24H 15/37, F24H 15/375, F24H 15/38, F24H 15/385, F24H 15/39, F24H 15/395, F24H 15/40, F24H 15/407, F24H 15/414, F24H 15/421, F24H 15/429, F24H 15/436, F24H 15/443, F24H 15/45, F24H 15/457, F24H 15/464, F24H 15/479, F24H 15/486, F24H 15/493
C	F24D 19/1093	F24D 19/1093, F24H 15/00, F24H 15/10, F24H 15/104, F24H 15/108, F24H 15/112, F24H 15/116, F24H 15/12, F24H 15/124, F24H 15/128, F24H 15/132, F24H 15/136, F24H 15/14, F24H 15/144, F24H 15/148, F24H 15/152, F24H 15/156, F24H 15/16, F24H 15/164, F24H 15/168, F24H 15/172, F24H 15/174, F24H 15/175, F24H 15/176, F24H 15/18, F24H 15/184, F24H 15/196, F24H 15/20, F24H 15/204, F24H 15/208, F24H 15/212, F24H 15/215, F24H 15/219, F24H 15/223, F24H 15/225, F24H 15/227, F24H 15/231, F24H 15/232, F24H 15/235, F24H 15/238, F24H 15/242, F24H 15/246, F24H 15/248, F24H 15/25, F24H 15/254, F24H 15/258, F24H 15/262, F24H 15/265, F24H 15/269, F24H 15/273, F24H 15/277, F24H 15/281, F24H 15/288, F24H 15/292, F24H 15/296, F24H 15/30, F24H 15/305, F24H 15/31, F24H 15/315, F24H 15/32, F24H 15/325, F24H 15/33, F24H 15/335, F24H 15/34, F24H 15/345, F24H 15/35, F24H 15/355, F24H 15/36, F24H 15/365, F24H 15/37, F24H 15/375, F24H 15/38, F24H 15/385, F24H 15/39, F24H 15/395, F24H 15/40, F24H 15/407, F24H 15/414, F24H 15/421, F24H 15/429, F24H 15/436, F24H 15/443, F24H 15/45, F24H 15/457, F24H 15/464, F24H 15/479, F24H 15/486, F24H 15/493
C	F24D 19/1096	F24D 19/1096, F24H 15/00, F24H 15/10, F24H 15/104, F24H 15/108, F24H 15/112, F24H 15/116, F24H 15/12, F24H 15/124, F24H 15/128, F24H 15/132, F24H 15/136, F24H 15/14, F24H 15/144, F24H 15/148, F24H 15/152, F24H 15/156, F24H 15/16, F24H 15/164, F24H 15/168, F24H 15/172, F24H 15/174, F24H 15/175, F24H 15/176, F24H 15/18, F24H 15/184, F24H 15/196, F24H 15/20, F24H 15/204, F24H 15/208, F24H 15/212, F24H 15/215, F24H 15/219, F24H 15/223, F24H 15/225, F24H 15/227, F24H 15/231, F24H 15/232, F24H 15/235, F24H 15/238, F24H 15/242, F24H 15/246, F24H 15/248, F24H 15/25, F24H 15/254, F24H 15/258, F24H 15/262, F24H 15/265, F24H 15/269, F24H 15/273, F24H 15/277, F24H 15/281, F24H 15/288, F24H 15/292, F24H 15/296, F24H 15/30, F24H 15/305, F24H 15/31, F24H 15/315, F24H 15/32, F24H 15/325, F24H 15/33, F24H 15/335, F24H 15/34, F24H 15/345, F24H 15/35, F24H 15/355, F24H 15/36, F24H 15/365, F24H 15/37, F24H 15/375, F24H 15/38, F24H 15/385, F24H 15/39, F24H 15/395, F24H 15/40, F24H 15/407, F24H 15/414, F24H 15/421, F24H 15/429, F24H 15/436, F24H 15/443, F24H 15/45, F24H 15/457, F24H 15/464, F24H 15/479, F24H 15/486, F24H 15/493
D	F24H 1/0081	<Administrative transfer to F24H 1/54>
D	F24H 9/0047	<Administrative transfer to F24H 9/45>
D	F24H 9/122	<Administrative transfer to F24H 9/13>

CPC NOTICE OF CHANGES 1235

DATE: JANUARY 1, 2022

PROJECT RP0758

Type*	From CPC Symbol (existing)	To CPC Symbol(s)
D	F24H 9/124	<Administrative transfer to F24H 9/133>
D	F24H 9/126	<Administrative transfer to F24H 9/136>
D	F24H 9/128	<Administrative transfer to F24H 9/139>
D	F24H 9/165	<Administrative transfer to F24H 9/17>
C	F24H 9/1809	F24H 9/1809, F24H 9/1832
C	F24H 9/1854	F24H 9/1854, F24H 9/1877
C	F24H 9/20	F24H 9/20, F24H 9/25, F24H 9/28, F24H 15/00, F24H 15/10, F24H 15/104, F24H 15/108, F24H 15/112, F24H 15/116, F24H 15/12, F24H 15/124, F24H 15/128, F24H 15/132, F24H 15/136, F24H 15/14, F24H 15/144, F24H 15/148, F24H 15/152, F24H 15/156, F24H 15/16, F24H 15/164, F24H 15/168, F24H 15/172, F24H 15/174, F24H 15/175, F24H 15/176, F24H 15/18, F24H 15/184, F24H 15/196, F24H 15/20, F24H 15/204, F24H 15/208, F24H 15/212, F24H 15/215, F24H 15/219, F24H 15/223, F24H 15/225, F24H 15/227, F24H 15/231, F24H 15/232, F24H 15/235, F24H 15/238, F24H 15/242, F24H 15/246, F24H 15/248, F24H 15/25, F24H 15/254, F24H 15/258, F24H 15/262, F24H 15/265, F24H 15/269, F24H 15/273, F24H 15/277, F24H 15/281, F24H 15/288, F24H 15/292, F24H 15/296, F24H 15/30, F24H 15/305, F24H 15/31, F24H 15/315, F24H 15/32, F24H 15/325, F24H 15/33, F24H 15/335, F24H 15/34, F24H 15/345, F24H 15/35, F24H 15/355, F24H 15/36, F24H 15/365, F24H 15/37, F24H 15/375, F24H 15/38, F24H 15/385, F24H 15/39, F24H 15/395, F24H 15/40, F24H 15/407, F24H 15/414, F24H 15/421, F24H 15/429, F24H 15/436, F24H 15/443, F24H 15/45, F24H 15/457, F24H 15/464, F24H 15/479, F24H 15/486, F24H 15/493
C	F24H 9/2007	F24H 9/2007, F24H 9/25, F24H 9/28, F24H 15/00, F24H 15/10, F24H 15/104, F24H 15/108, F24H 15/112, F24H 15/116, F24H 15/12, F24H 15/124, F24H 15/128, F24H 15/132, F24H 15/136, F24H 15/14, F24H 15/144, F24H 15/148, F24H 15/152, F24H 15/156, F24H 15/16, F24H 15/164, F24H 15/168, F24H 15/172, F24H 15/174, F24H 15/175, F24H 15/176, F24H 15/18, F24H 15/184, F24H 15/196, F24H 15/20, F24H 15/204, F24H 15/208, F24H 15/212, F24H 15/215, F24H 15/219, F24H 15/223, F24H 15/225, F24H 15/227, F24H 15/231, F24H 15/232, F24H 15/235, F24H 15/238, F24H 15/242, F24H 15/246, F24H 15/248, F24H 15/25, F24H 15/254, F24H 15/258, F24H 15/262, F24H 15/265, F24H 15/269, F24H 15/273, F24H 15/277, F24H 15/281, F24H 15/288, F24H 15/292, F24H 15/296, F24H 15/30, F24H 15/305, F24H 15/31, F24H 15/315, F24H 15/32, F24H 15/325, F24H 15/33, F24H 15/335, F24H 15/34, F24H 15/345, F24H 15/35, F24H 15/355, F24H 15/36, F24H 15/365, F24H 15/37, F24H 15/375, F24H 15/38, F24H 15/385, F24H 15/39, F24H 15/395, F24H 15/40, F24H 15/407, F24H 15/414, F24H 15/421, F24H 15/429, F24H 15/436, F24H 15/443, F24H 15/45, F24H 15/457, F24H 15/464, F24H 15/479, F24H 15/486, F24H 15/493

CPC NOTICE OF CHANGES 1235

DATE: JANUARY 1, 2022

PROJECT RP0758

Type*	From CPC Symbol (existing)	To CPC Symbol(s)
C	F24H 9/2014	F24H 9/2014, F24H 9/25, F24H 9/28, F24H 15/00, F24H 15/10, F24H 15/104, F24H 15/108, F24H 15/112, F24H 15/116, F24H 15/12, F24H 15/124, F24H 15/128, F24H 15/132, F24H 15/136, F24H 15/14, F24H 15/144, F24H 15/148, F24H 15/152, F24H 15/156, F24H 15/16, F24H 15/164, F24H 15/168, F24H 15/172, F24H 15/174, F24H 15/175, F24H 15/176, F24H 15/18, F24H 15/184, F24H 15/196, F24H 15/20, F24H 15/204, F24H 15/208, F24H 15/212, F24H 15/215, F24H 15/219, F24H 15/223, F24H 15/225, F24H 15/227, F24H 15/231, F24H 15/232, F24H 15/235, F24H 15/238, F24H 15/242, F24H 15/246, F24H 15/248, F24H 15/25, F24H 15/254, F24H 15/258, F24H 15/262, F24H 15/265, F24H 15/269, F24H 15/273, F24H 15/277, F24H 15/281, F24H 15/288, F24H 15/292, F24H 15/296, F24H 15/30, F24H 15/305, F24H 15/31, F24H 15/315, F24H 15/32, F24H 15/325, F24H 15/33, F24H 15/335, F24H 15/34, F24H 15/345, F24H 15/35, F24H 15/355, F24H 15/36, F24H 15/365, F24H 15/37, F24H 15/375, F24H 15/38, F24H 15/385, F24H 15/39, F24H 15/395, F24H 15/40, F24H 15/407, F24H 15/414, F24H 15/421, F24H 15/429, F24H 15/436, F24H 15/443, F24H 15/45, F24H 15/457, F24H 15/464, F24H 15/479, F24H 15/486, F24H 15/493
C	F24H 9/2021	F24H 9/2021, F24H 9/25, F24H 9/28, F24H 15/00, F24H 15/10, F24H 15/104, F24H 15/108, F24H 15/112, F24H 15/116, F24H 15/12, F24H 15/124, F24H 15/128, F24H 15/132, F24H 15/136, F24H 15/14, F24H 15/144, F24H 15/148, F24H 15/152, F24H 15/156, F24H 15/16, F24H 15/164, F24H 15/168, F24H 15/172, F24H 15/174, F24H 15/175, F24H 15/176, F24H 15/18, F24H 15/184, F24H 15/196, F24H 15/20, F24H 15/204, F24H 15/208, F24H 15/212, F24H 15/215, F24H 15/219, F24H 15/223, F24H 15/225, F24H 15/227, F24H 15/231, F24H 15/232, F24H 15/235, F24H 15/238, F24H 15/242, F24H 15/246, F24H 15/248, F24H 15/25, F24H 15/254, F24H 15/258, F24H 15/262, F24H 15/265, F24H 15/269, F24H 15/273, F24H 15/277, F24H 15/281, F24H 15/288, F24H 15/292, F24H 15/296, F24H 15/30, F24H 15/305, F24H 15/31, F24H 15/315, F24H 15/32, F24H 15/325, F24H 15/33, F24H 15/335, F24H 15/34, F24H 15/345, F24H 15/35, F24H 15/355, F24H 15/36, F24H 15/365, F24H 15/37, F24H 15/375, F24H 15/38, F24H 15/385, F24H 15/39, F24H 15/395, F24H 15/40, F24H 15/407, F24H 15/414, F24H 15/421, F24H 15/429, F24H 15/436, F24H 15/443, F24H 15/45, F24H 15/457, F24H 15/464, F24H 15/479, F24H 15/486, F24H 15/493
C	F24H 9/2028	F24H 9/2028, F24H 9/25, F24H 9/28, F24H 15/00, F24H 15/10, F24H 15/104, F24H 15/108, F24H 15/112, F24H 15/116, F24H 15/12, F24H 15/124, F24H 15/128, F24H 15/132, F24H 15/136, F24H 15/14, F24H 15/144, F24H 15/148, F24H 15/152, F24H 15/156, F24H 15/16, F24H 15/164, F24H 15/168, F24H 15/172, F24H 15/174, F24H 15/175, F24H 15/176, F24H 15/18, F24H 15/184, F24H 15/196, F24H 15/20, F24H 15/204, F24H 15/208, F24H 15/212, F24H 15/215, F24H 15/219, F24H 15/223, F24H 15/225, F24H 15/227, F24H 15/231, F24H 15/232, F24H 15/235, F24H 15/238, F24H 15/242, F24H 15/246, F24H 15/248, F24H 15/25, F24H 15/254, F24H 15/258, F24H 15/262, F24H 15/265, F24H 15/269, F24H 15/273, F24H 15/277, F24H 15/281, F24H 15/288, F24H 15/292, F24H 15/296, F24H 15/30, F24H 15/305, F24H 15/31, F24H 15/315, F24H 15/32, F24H 15/325, F24H 15/33, F24H 15/335, F24H 15/34, F24H 15/345, F24H 15/35, F24H 15/355, F24H 15/36, F24H 15/365, F24H 15/37, F24H 15/375, F24H 15/38, F24H 15/385, F24H 15/39, F24H 15/395, F24H 15/40, F24H 15/407, F24H 15/414, F24H 15/421, F24H 15/429, F24H 15/436, F24H 15/443, F24H 15/45, F24H 15/457, F24H 15/464, F24H 15/479, F24H 15/486, F24H 15/493

CPC NOTICE OF CHANGES 1235

DATE: JANUARY 1, 2022

PROJECT RP0758

Type*	From CPC Symbol (existing)	To CPC Symbol(s)
C	F24H 9/2035	F24H 9/2035, F24H 9/25, F24H 9/28, F24H 15/00, F24H 15/10, F24H 15/104, F24H 15/108, F24H 15/112, F24H 15/116, F24H 15/12, F24H 15/124, F24H 15/128, F24H 15/132, F24H 15/136, F24H 15/14, F24H 15/144, F24H 15/148, F24H 15/152, F24H 15/156, F24H 15/16, F24H 15/164, F24H 15/168, F24H 15/172, F24H 15/174, F24H 15/175, F24H 15/176, F24H 15/18, F24H 15/184, F24H 15/196, F24H 15/20, F24H 15/204, F24H 15/208, F24H 15/212, F24H 15/215, F24H 15/219, F24H 15/223, F24H 15/225, F24H 15/227, F24H 15/231, F24H 15/232, F24H 15/235, F24H 15/238, F24H 15/242, F24H 15/246, F24H 15/248, F24H 15/25, F24H 15/254, F24H 15/258, F24H 15/262, F24H 15/265, F24H 15/269, F24H 15/273, F24H 15/277, F24H 15/281, F24H 15/288, F24H 15/292, F24H 15/296, F24H 15/30, F24H 15/305, F24H 15/31, F24H 15/315, F24H 15/32, F24H 15/325, F24H 15/33, F24H 15/335, F24H 15/34, F24H 15/345, F24H 15/35, F24H 15/355, F24H 15/36, F24H 15/365, F24H 15/37, F24H 15/375, F24H 15/38, F24H 15/385, F24H 15/39, F24H 15/395, F24H 15/40, F24H 15/407, F24H 15/414, F24H 15/421, F24H 15/429, F24H 15/436, F24H 15/443, F24H 15/45, F24H 15/457, F24H 15/464, F24H 15/479, F24H 15/486, F24H 15/493
C	F24H 9/2042	F24H 9/2042, F24H 9/25, F24H 9/28, F24H 15/00, F24H 15/10, F24H 15/104, F24H 15/108, F24H 15/112, F24H 15/116, F24H 15/12, F24H 15/124, F24H 15/128, F24H 15/132, F24H 15/136, F24H 15/14, F24H 15/144, F24H 15/148, F24H 15/152, F24H 15/156, F24H 15/16, F24H 15/164, F24H 15/168, F24H 15/172, F24H 15/174, F24H 15/175, F24H 15/176, F24H 15/18, F24H 15/184, F24H 15/196, F24H 15/20, F24H 15/204, F24H 15/208, F24H 15/212, F24H 15/215, F24H 15/219, F24H 15/223, F24H 15/225, F24H 15/227, F24H 15/231, F24H 15/232, F24H 15/235, F24H 15/238, F24H 15/242, F24H 15/246, F24H 15/248, F24H 15/25, F24H 15/254, F24H 15/258, F24H 15/262, F24H 15/265, F24H 15/269, F24H 15/273, F24H 15/277, F24H 15/281, F24H 15/288, F24H 15/292, F24H 15/296, F24H 15/30, F24H 15/305, F24H 15/31, F24H 15/315, F24H 15/32, F24H 15/325, F24H 15/33, F24H 15/335, F24H 15/34, F24H 15/345, F24H 15/35, F24H 15/355, F24H 15/36, F24H 15/365, F24H 15/37, F24H 15/375, F24H 15/38, F24H 15/385, F24H 15/39, F24H 15/395, F24H 15/40, F24H 15/407, F24H 15/414, F24H 15/421, F24H 15/429, F24H 15/436, F24H 15/443, F24H 15/45, F24H 15/457, F24H 15/464, F24H 15/479, F24H 15/486, F24H 15/493
C	F24H 9/205	F24H 9/205, F24H 9/25, F24H 9/28, F24H 15/00, F24H 15/10, F24H 15/104, F24H 15/108, F24H 15/112, F24H 15/116, F24H 15/12, F24H 15/124, F24H 15/128, F24H 15/132, F24H 15/136, F24H 15/14, F24H 15/144, F24H 15/148, F24H 15/152, F24H 15/156, F24H 15/16, F24H 15/164, F24H 15/168, F24H 15/172, F24H 15/174, F24H 15/175, F24H 15/176, F24H 15/18, F24H 15/184, F24H 15/196, F24H 15/20, F24H 15/204, F24H 15/208, F24H 15/212, F24H 15/215, F24H 15/219, F24H 15/223, F24H 15/225, F24H 15/227, F24H 15/231, F24H 15/232, F24H 15/235, F24H 15/238, F24H 15/242, F24H 15/246, F24H 15/248, F24H 15/25, F24H 15/254, F24H 15/258, F24H 15/262, F24H 15/265, F24H 15/269, F24H 15/273, F24H 15/277, F24H 15/281, F24H 15/288, F24H 15/292, F24H 15/296, F24H 15/30, F24H 15/305, F24H 15/31, F24H 15/315, F24H 15/32, F24H 15/325, F24H 15/33, F24H 15/335, F24H 15/34, F24H 15/345, F24H 15/35, F24H 15/355, F24H 15/36, F24H 15/365, F24H 15/37, F24H 15/375, F24H 15/38, F24H 15/385, F24H 15/39, F24H 15/395, F24H 15/40, F24H 15/407, F24H 15/414, F24H 15/421, F24H 15/429, F24H 15/436, F24H 15/443, F24H 15/45, F24H 15/457, F24H 15/464, F24H 15/479, F24H 15/486, F24H 15/493

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Type*	From CPC Symbol (existing)	To CPC Symbol(s)
C	F24H 9/2057	F24H 9/2057, F24H 9/25, F24H 9/28, F24H 15/00, F24H 15/10, F24H 15/104, F24H 15/108, F24H 15/112, F24H 15/116, F24H 15/12, F24H 15/124, F24H 15/128, F24H 15/132, F24H 15/136, F24H 15/14, F24H 15/144, F24H 15/148, F24H 15/152, F24H 15/156, F24H 15/16, F24H 15/164, F24H 15/168, F24H 15/172, F24H 15/174, F24H 15/175, F24H 15/176, F24H 15/18, F24H 15/184, F24H 15/196, F24H 15/20, F24H 15/204, F24H 15/208, F24H 15/212, F24H 15/215, F24H 15/219, F24H 15/223, F24H 15/225, F24H 15/227, F24H 15/231, F24H 15/232, F24H 15/235, F24H 15/238, F24H 15/242, F24H 15/246, F24H 15/248, F24H 15/25, F24H 15/254, F24H 15/258, F24H 15/262, F24H 15/265, F24H 15/269, F24H 15/273, F24H 15/277, F24H 15/281, F24H 15/288, F24H 15/292, F24H 15/296, F24H 15/30, F24H 15/305, F24H 15/31, F24H 15/315, F24H 15/32, F24H 15/325, F24H 15/33, F24H 15/335, F24H 15/34, F24H 15/345, F24H 15/35, F24H 15/355, F24H 15/36, F24H 15/365, F24H 15/37, F24H 15/375, F24H 15/38, F24H 15/385, F24H 15/39, F24H 15/395, F24H 15/40, F24H 15/407, F24H 15/414, F24H 15/421, F24H 15/429, F24H 15/436, F24H 15/443, F24H 15/45, F24H 15/457, F24H 15/464, F24H 15/479, F24H 15/486, F24H 15/493
C	F24H 9/2064	F24H 9/2064, F24H 9/25, F24H 9/28, F24H 15/00, F24H 15/10, F24H 15/104, F24H 15/108, F24H 15/112, F24H 15/116, F24H 15/12, F24H 15/124, F24H 15/128, F24H 15/132, F24H 15/136, F24H 15/14, F24H 15/144, F24H 15/148, F24H 15/152, F24H 15/156, F24H 15/16, F24H 15/164, F24H 15/168, F24H 15/172, F24H 15/174, F24H 15/175, F24H 15/176, F24H 15/18, F24H 15/184, F24H 15/196, F24H 15/20, F24H 15/204, F24H 15/208, F24H 15/212, F24H 15/215, F24H 15/219, F24H 15/223, F24H 15/225, F24H 15/227, F24H 15/231, F24H 15/232, F24H 15/235, F24H 15/238, F24H 15/242, F24H 15/246, F24H 15/248, F24H 15/25, F24H 15/254, F24H 15/258, F24H 15/262, F24H 15/265, F24H 15/269, F24H 15/273, F24H 15/277, F24H 15/281, F24H 15/288, F24H 15/292, F24H 15/296, F24H 15/30, F24H 15/305, F24H 15/31, F24H 15/315, F24H 15/32, F24H 15/325, F24H 15/33, F24H 15/335, F24H 15/34, F24H 15/345, F24H 15/35, F24H 15/355, F24H 15/36, F24H 15/365, F24H 15/37, F24H 15/375, F24H 15/38, F24H 15/385, F24H 15/39, F24H 15/395, F24H 15/40, F24H 15/407, F24H 15/414, F24H 15/421, F24H 15/429, F24H 15/436, F24H 15/443, F24H 15/45, F24H 15/457, F24H 15/464, F24H 15/479, F24H 15/486, F24H 15/493
C	F24H 9/2071	F24H 9/2071, F24H 9/25, F24H 9/28, F24H 15/00, F24H 15/10, F24H 15/104, F24H 15/108, F24H 15/112, F24H 15/116, F24H 15/12, F24H 15/124, F24H 15/128, F24H 15/132, F24H 15/136, F24H 15/14, F24H 15/144, F24H 15/148, F24H 15/152, F24H 15/156, F24H 15/16, F24H 15/164, F24H 15/168, F24H 15/172, F24H 15/174, F24H 15/175, F24H 15/176, F24H 15/18, F24H 15/184, F24H 15/196, F24H 15/20, F24H 15/204, F24H 15/208, F24H 15/212, F24H 15/215, F24H 15/219, F24H 15/223, F24H 15/225, F24H 15/227, F24H 15/231, F24H 15/232, F24H 15/235, F24H 15/238, F24H 15/242, F24H 15/246, F24H 15/248, F24H 15/25, F24H 15/254, F24H 15/258, F24H 15/262, F24H 15/265, F24H 15/269, F24H 15/273, F24H 15/277, F24H 15/281, F24H 15/288, F24H 15/292, F24H 15/296, F24H 15/30, F24H 15/305, F24H 15/31, F24H 15/315, F24H 15/32, F24H 15/325, F24H 15/33, F24H 15/335, F24H 15/34, F24H 15/345, F24H 15/35, F24H 15/355, F24H 15/36, F24H 15/365, F24H 15/37, F24H 15/375, F24H 15/38, F24H 15/385, F24H 15/39, F24H 15/395, F24H 15/40, F24H 15/407, F24H 15/414, F24H 15/421, F24H 15/429, F24H 15/436, F24H 15/443, F24H 15/45, F24H 15/457, F24H 15/464, F24H 15/479, F24H 15/486, F24H 15/493

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Type*	From CPC Symbol (existing)	To CPC Symbol(s)
C	F24H 9/2078	F24H 9/2078, F24H 9/25, F24H 9/28, F24H 15/00, F24H 15/10, F24H 15/104, F24H 15/108, F24H 15/112, F24H 15/116, F24H 15/12, F24H 15/124, F24H 15/128, F24H 15/132, F24H 15/136, F24H 15/14, F24H 15/144, F24H 15/148, F24H 15/152, F24H 15/156, F24H 15/16, F24H 15/164, F24H 15/168, F24H 15/172, F24H 15/174, F24H 15/175, F24H 15/176, F24H 15/18, F24H 15/184, F24H 15/196, F24H 15/20, F24H 15/204, F24H 15/208, F24H 15/212, F24H 15/215, F24H 15/219, F24H 15/223, F24H 15/225, F24H 15/227, F24H 15/231, F24H 15/232, F24H 15/235, F24H 15/238, F24H 15/242, F24H 15/246, F24H 15/248, F24H 15/25, F24H 15/254, F24H 15/258, F24H 15/262, F24H 15/265, F24H 15/269, F24H 15/273, F24H 15/277, F24H 15/281, F24H 15/288, F24H 15/292, F24H 15/296, F24H 15/30, F24H 15/305, F24H 15/31, F24H 15/315, F24H 15/32, F24H 15/325, F24H 15/33, F24H 15/335, F24H 15/34, F24H 15/345, F24H 15/35, F24H 15/355, F24H 15/36, F24H 15/365, F24H 15/37, F24H 15/375, F24H 15/38, F24H 15/385, F24H 15/39, F24H 15/395, F24H 15/40, F24H 15/407, F24H 15/414, F24H 15/421, F24H 15/429, F24H 15/436, F24H 15/443, F24H 15/45, F24H 15/457, F24H 15/464, F24H 15/479, F24H 15/486, F24H 15/493
C	F24H 9/2085	F24H 9/2085, F24H 9/25, F24H 9/28, F24H 15/00, F24H 15/10, F24H 15/104, F24H 15/108, F24H 15/112, F24H 15/116, F24H 15/12, F24H 15/124, F24H 15/128, F24H 15/132, F24H 15/136, F24H 15/14, F24H 15/144, F24H 15/148, F24H 15/152, F24H 15/156, F24H 15/16, F24H 15/164, F24H 15/168, F24H 15/172, F24H 15/174, F24H 15/175, F24H 15/176, F24H 15/18, F24H 15/184, F24H 15/196, F24H 15/20, F24H 15/204, F24H 15/208, F24H 15/212, F24H 15/215, F24H 15/219, F24H 15/223, F24H 15/225, F24H 15/227, F24H 15/231, F24H 15/232, F24H 15/235, F24H 15/238, F24H 15/242, F24H 15/246, F24H 15/248, F24H 15/25, F24H 15/254, F24H 15/258, F24H 15/262, F24H 15/265, F24H 15/269, F24H 15/273, F24H 15/277, F24H 15/281, F24H 15/288, F24H 15/292, F24H 15/296, F24H 15/30, F24H 15/305, F24H 15/31, F24H 15/315, F24H 15/32, F24H 15/325, F24H 15/33, F24H 15/335, F24H 15/34, F24H 15/345, F24H 15/35, F24H 15/355, F24H 15/36, F24H 15/365, F24H 15/37, F24H 15/375, F24H 15/38, F24H 15/385, F24H 15/39, F24H 15/395, F24H 15/40, F24H 15/407, F24H 15/414, F24H 15/421, F24H 15/429, F24H 15/436, F24H 15/443, F24H 15/45, F24H 15/457, F24H 15/464, F24H 15/479, F24H 15/486, F24H 15/493
C	F24H 9/2092	F24H 9/2092, F24H 9/25, F24H 9/28, F24H 15/00, F24H 15/10, F24H 15/104, F24H 15/108, F24H 15/112, F24H 15/116, F24H 15/12, F24H 15/124, F24H 15/128, F24H 15/132, F24H 15/136, F24H 15/14, F24H 15/144, F24H 15/148, F24H 15/152, F24H 15/156, F24H 15/16, F24H 15/164, F24H 15/168, F24H 15/172, F24H 15/174, F24H 15/175, F24H 15/176, F24H 15/18, F24H 15/184, F24H 15/196, F24H 15/20, F24H 15/204, F24H 15/208, F24H 15/212, F24H 15/215, F24H 15/219, F24H 15/223, F24H 15/225, F24H 15/227, F24H 15/231, F24H 15/232, F24H 15/235, F24H 15/238, F24H 15/242, F24H 15/246, F24H 15/248, F24H 15/25, F24H 15/254, F24H 15/258, F24H 15/262, F24H 15/265, F24H 15/269, F24H 15/273, F24H 15/277, F24H 15/281, F24H 15/288, F24H 15/292, F24H 15/296, F24H 15/30, F24H 15/305, F24H 15/31, F24H 15/315, F24H 15/32, F24H 15/325, F24H 15/33, F24H 15/335, F24H 15/34, F24H 15/345, F24H 15/35, F24H 15/355, F24H 15/36, F24H 15/365, F24H 15/37, F24H 15/375, F24H 15/38, F24H 15/385, F24H 15/39, F24H 15/395, F24H 15/40, F24H 15/407, F24H 15/414, F24H 15/421, F24H 15/429, F24H 15/436, F24H 15/443, F24H 15/45, F24H 15/457, F24H 15/464, F24H 15/479, F24H 15/486, F24H 15/493
Q	F24H 9/45	F24H 9/40, F24H 9/45, F24H 9/455, F24H 9/457

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* C = entries with modified file scope where reclassification of documents from the entries is involved; Q = new entries which are firstly populated with documents via administrative transfers from deleted (D) entries. Afterwards, the transferred documents into the Q entry will either stay or be moved to more appropriate entries, as determined by intellectual reclassification; D = deleted entries; F = frozen entries will be deleted once reclassification of documents from the entries is completed.

NOTES:

- Only C, D, F, and Q type entries are included in the table above.
- When multiple symbols are included in the “To” column, do not use ranges of symbols.
- For administrative transfer of documents, the following text should be used: “< administrative transfer to XX>”, “<<administrative transfer to XX and YY simultaneously>>”, or “<<administrative transfer to XX, YY, ...and ZZ simultaneously>>” when administrative transfer of the same documents is to more than one place.
- Administrative transfer to main trunk groups is assumed to be the source allocation type, unless otherwise indicated.
- Administrative transfer to 2000/Y series groups is assumed to be “additional information”.
- If needed, instructions for allocation type should be indicated within the angle brackets using the abbreviations “ADD” or “INV”: <administrative transfer to XX ADD>, <administrative transfer to XX INV>, or < administrative transfer to XX ADD, YY INV, ... and ZZ ADD simultaneously>.
- In certain situations, the “D” entries of 2000-series or Y-series groups may not require a destination (“To”) symbol, however it is required to specify “<no transfer>” in the “To” column for such cases.
- RCL is not needed for finalisation projects.

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4. CHANGES TO THE CPC-TO-IPC CONCORDANCE LIST (CICL)

<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
F24H 1/0081		DELETE
F24H 1/54	F24H 1/54	NEW
F24H 9/0047		DELETE
F24H 9/122		DELETE
F24H 9/124		DELETE
F24H 9/126		DELETE
F24H 9/128		DELETE
F24H 9/13	F24H 9/13	NEW
F24H 9/133	F24H 9/13	NEW
F24H 9/136	F24H 9/13	NEW
F24H 9/139	F24H 9/13	NEW
F24H 9/165		DELETE
F24H 9/17	F24H 9/17	NEW
F24H 9/1809	F24H 9/1809	UPDATE
F24H 9/1818	F24H 9/1818	UPDATE
F24H 9/1827	F24H 9/1818	UPDATE
F24H 9/1832	F24H 9/1832	NEW
F24H 9/1836	F24H 9/1836	UPDATE
F24H 9/1845	F24H 9/1845	UPDATE
F24H 9/1854	F24H 9/1854	UPDATE
F24H 9/1863	F24H 9/1863	UPDATE
F24H 9/1872	F24H 9/1863	UPDATE
F24H 9/1877	F24H 9/1877	NEW
F24H 9/1881	F24H 9/1881	UPDATE
F24H 9/189	F24H 9/189	UPDATE
F24H 9/25	F24H 9/25	NEW
F24H 9/28	F24H 9/28	NEW
F24H 9/40	F24H 9/40	NEW
F24H 9/45	F24H 9/45	NEW
F24H 9/455	F24H 9/45	NEW
F24H 9/457	F24H 9/45	NEW
F24H 15/00	F24H 15/00	NEW
F24H 15/10	F24H 15/10	NEW
F24H 15/104	F24H 15/104	NEW
F24H 15/108	F24H 15/108	NEW
F24H 15/112	F24H 15/112	NEW
F24H 15/116	F24H 15/116	NEW
F24H 15/12	F24H 15/12	NEW
F24H 15/124	F24H 15/124	NEW
F24H 15/128	F24H 15/128	NEW
F24H 15/132	F24H 15/132	NEW
F24H 15/136	F24H 15/136	NEW

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<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
F24H 15/14	F24H 15/14	NEW
F24H 15/144	F24H 15/144	NEW
F24H 15/148	F24H 15/148	NEW
F24H 15/152	F24H 15/152	NEW
F24H 15/156	F24H 15/156	NEW
F24H 15/16	F24H 15/16	NEW
F24H 15/164	F24H 15/164	NEW
F24H 15/168	F24H 15/168	NEW
F24H 15/172	F24H 15/172	NEW
F24H 15/174	F24H 15/174	NEW
F24H 15/175	F24H 15/175	NEW
F24H 15/176	F24H 15/176	NEW
F24H 15/18	F24H 15/18	NEW
F24H 15/184	F24H 15/184	NEW
F24H 15/196	F24H 15/196	NEW
F24H 15/20	F24H 15/20	NEW
F24H 15/204	F24H 15/204	NEW
F24H 15/208	F24H 15/208	NEW
F24H 15/212	F24H 15/212	NEW
F24H 15/215	F24H 15/215	NEW
F24H 15/219	F24H 15/219	NEW
F24H 15/223	F24H 15/223	NEW
F24H 15/225	F24H 15/225	NEW
F24H 15/227	F24H 15/227	NEW
F24H 15/231	F24H 15/231	NEW
F24H 15/232	F24H 15/232	NEW
F24H 15/235	F24H 15/235	NEW
F24H 15/238	F24H 15/238	NEW
F24H 15/242	F24H 15/242	NEW
F24H 15/246	F24H 15/246	NEW
F24H 15/248	F24H 15/248	NEW
F24H 15/25	F24H 15/25	NEW
F24H 15/254	F24H 15/254	NEW
F24H 15/258	F24H 15/258	NEW
F24H 15/262	F24H 15/262	NEW
F24H 15/265	F24H 15/265	NEW
F24H 15/269	F24H 15/269	NEW
F24H 15/273	F24H 15/273	NEW
F24H 15/277	F24H 15/277	NEW
F24H 15/281	F24H 15/281	NEW
F24H 15/288	F24H 15/288	NEW
F24H 15/292	F24H 15/292	NEW
F24H 15/296	F24H 15/296	NEW
F24H 15/30	F24H 15/30	NEW
F24H 15/305	F24H 15/305	NEW

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<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
F24H 15/31	F24H 15/31	NEW
F24H 15/315	F24H 15/315	NEW
F24H 15/32	F24H 15/32	NEW
F24H 15/325	F24H 15/325	NEW
F24H 15/33	F24H 15/33	NEW
F24H 15/335	F24H 15/335	NEW
F24H 15/34	F24H 15/34	NEW
F24H 15/345	F24H 15/345	NEW
F24H 15/35	F24H 15/35	NEW
F24H 15/355	F24H 15/355	NEW
F24H 15/36	F24H 15/36	NEW
F24H 15/365	F24H 15/365	NEW
F24H 15/37	F24H 15/37	NEW
F24H 15/375	F24H 15/375	NEW
F24H 15/38	F24H 15/38	NEW
F24H 15/385	F24H 15/385	NEW
F24H 15/39	F24H 15/39	NEW
F24H 15/395	F24H 15/395	NEW
F24H 15/40	F24H 15/40	NEW
F24H 15/407	F24H 15/407	NEW
F24H 15/414	F24H 15/414	NEW
F24H 15/421	F24H 15/421	NEW
F24H 15/429	F24H 15/429	NEW
F24H 15/436	F24H 15/436	NEW
F24H 15/443	F24H 15/443	NEW
F24H 15/45	F24H 15/45	NEW
F24H 15/457	F24H 15/457	NEW
F24H 15/464	F24H 15/464	NEW
F24H 15/479	F24H 15/479	NEW
F24H 15/486	F24H 15/486	NEW
F24H 15/493	F24H 15/493	NEW

*Action column:

- For an (N) or (Q) entry, provide an IPC symbol and complete the Action column with “NEW.”
- For an existing CPC main trunk entry or indexing entry where the existing IPC symbol needs to be changed, provide an updated IPC symbol and complete the Action column with “UPDATED.”
- For a (D) CPC entry or indexing entry complete the Action column with “DELETE.” IPC symbol does not need to be included in the IPC column.
- For an (N) 2000 series CPC entry which is positioned within the main trunk scheme (breakdown code) provide an IPC symbol and complete the action column with “NEW”.
- For an (N) 2000 series CPC entry positioned at the end of the CPC scheme (orthogonal code), with no IPC equivalent, complete the IPC column with “CPCONLY” and complete the action column with “NEW”.

NOTES:

- F symbols are not included in the CICL table above.
- T and M symbols are not included in the CICL table above unless a change to the existing IPC is desired.

CPC NOTICE OF CHANGES 1235

DATE: JANUARY 1, 2022

PROJECT RP0758

5. CROSS-REFERENCE LIST (CRL)

Scheme references impacted by this revision project

<u>Location of reference to be changed</u>	<u>Referenced subclass or group to be changed</u>	<u>Action; New reference symbol; New text</u>
A61H33/00	F24H1/0081	<u>Replace</u> the reference to be changed with the following reference: F24H1/54

Definitions references impacted by this revision project

<u>Location of reference to be changed</u>	<u>Referenced subclass or group to be changed</u>	<u>Section of definition</u>	<u>Action; New reference symbol; New text</u>
A61H33/00	F24H1/0081	Informative references	<u>Replace</u> the reference to be changed with the following reference: F24H1/54
A61H33/60	F24H1/0081	Limiting references	<u>Replace</u> the reference to be changed with the following reference: F24H1/54
C23F13/00	F24H9/0047	Application-oriented references	<u>Replace</u> the reference to be changed with the following reference: F24H9/45
F24D3/00	F24H9/122	Informative references	<u>Replace</u> the reference to be changed with the following reference: F24H9/13
F24D3/00	F24H9/126	Informative references	<u>Replace</u> the reference to be changed with the following reference: F24H9/136

NOTES:

- The CRL tables above are used for changes to locations **outside** of the project scope. Changes to references in scheme titles or definitions **inside** the project scope will be reflected in the “scheme change” template or one of the “definition” templates.
- In addition to other changes proposed in the tables above, in the column titled “Referenced subclass or group to be changed,” **referenced D** symbols should indicate an action of “delete” or should indicate a replacement symbol and **referenced F** symbols should indicate a replacement symbol.
- When a reference is deleted, text related to that reference will also be deleted unless other references or a range of references associated with the same text remain.