

EUROPEAN PATENT OFFICE  
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 526

DATE: AUGUST 1, 2018

PROJECT RP0437

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

<u>Action</u>	<u>Subclass</u>	<u>Group(s)</u>
<b>SCHEME:</b>		
Titles Changed:	F24F	subclass
	F24F	3/02
	F24F	3/048
	F24F	3/056
	F24F	3/06
	F24F	3/12
	F24F	6/14
	F24F	7/013
	F24F	7/02
	F24F	7/06
	F24F	7/065
	F24F	7/10
	F24F	12/00
	F24F	13/04
	F24F	13/062
	F24F	13/065
	F24F	13/078
	F24F	13/08
	F24F	13/10
Warnings New:	F24F	3/02
	F24F	3/04
	F24F	3/044
	F24F	3/0442
	F24F	3/0444
	F24F	2003/0446
	F24F	2003/0448
	F24F	3/048
	F24F	3/052
	F24F	3/0522
	F24F	3/0525
	F24F	3/0527
	F24F	3/056
	F24F	3/06

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<u>Action</u>	<u>Subclass</u>	<u>Group(s)</u>
	F24F	3/065
	F24F	3//08
	F24F	3/10
	F24F	3/12
	F24F	3/14
	F24F	3/1405
	F24F	3/1411
	F24F	3/1417
	F24F	3/1423
	F24F	3/1429
	F24F	2003/1435
	F24F	2003/144
	F24F	2003/1446
	F24F	2003/1452
	F24F	2003/1458
	F24F	2003/1464
	F24F	3/147
	F24F	3/153
	F24F	3/16
	F24F	3/1603
	F24F	3/1607
	F24F	3/161
	F24F	2003/1614
	F24F	2003/1617
	F24F	2003/1621
	F24F	2003/1625
	F24F	2003/1628
	F24F	2003/1632
	F24F	20031635
	F24F	2003/1639
	F24F	2003/1642
	F24F	2003/1646
	F24F	2003/165
	F24F	2003/1653
	F24F	2003/1657
	F24F	3/166
	F24F	2003/1664
	F24F	2003/1667
	F24F	2003/1671
	F24F	2003/1675

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<u>Action</u>	<u>Subclass</u>	<u>Group(s)</u>
	F24F	2003/1678
	F24F	2003/1682
	F24F	2003/1685
	F24F	2003/1689
	F24F	2003/1692
	F24F	2003/1696
	F24F	7/007
	F24F	7/013
	F24F	7/02
	F24F	7/025
	F24F	13/062
	F24F	13/065
	F24F	13/072
	F24F	13/078
	F24F	13/08
	F24F	13/10
	F24F	13/105
	F24F	13/12
	F24F	13/14
	F24F	13/1406
	F24F	13/1413
	F24F	13/142
	F24F	13/1426
	F24F	2013/1433
	F24F	2013/144
	F24F	2013/1446
	F24F	2013/1453
	F24F	2013/146
	F24F	2013/1466
	F24F	2013/1473
	F24F	2013/148
	F24F	2013/1486
	F24F	2013/1493
	F24F	13/15
	F24F	13/16
	F24F	13/18
Warnings modified	F24F	11/83
	F24F	11/84
	F24F	11/85

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<u>Action</u>	<u>Subclass</u>	<u>Group(s)</u>
<b>DEFINITIONS:</b>		
Definitions New:	F24F	3/06
	F24F	6/14
	F24F	7/013
	F24F	7/06
	F24F	7/065
	F24F	13/04
	F24F	13/078
	F24F	13/08
	F24F	13/10
Definitions Modified:	F24F	subclass
	F24F	9/00
	F24F	11/00
	F24F	12/00

**No other subclasses/groups are impacted by this Notice of Changes.**

**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)
- 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 F24F - AIR-CONDITIONING, AIR-HUMIDIFICATION, VENTILATION, USE OF AIR CURRENTS FOR SCREENING**

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title (new or modified)</u> <u>“CPC only” text should normally be enclosed in {curly brackets}**</u>	<u>Transferred to#</u>
M	F24F	subclass	AIR-CONDITIONING; AIR-HUMIDIFICATION; VENTILATION; USE OF AIR CURRENTS FOR SCREENING (removing dirt or fumes from areas where they are produced B08B 15/00; vertical ducts for carrying away waste gases from buildings E04F 17/02; tops for chimneys or ventilating shafts, terminals for flues F23L 17/02)	
U	F24F 3/00	0	Air-conditioning systems in which conditioned primary air is supplied from one or more central stations to distributing units in the rooms or spaces where it may receive secondary treatment; Apparatus specially designed for such systems (room units F24F 1/00)	
C	F24F 3/02	1	characterised by the pressure or velocity of the primary air	F24F 3/02, F24F 3/06, F24F 3/065, F24F 3/08, F24F 3/10, F24F 3/12, F24F 3/14, F24F 3/1405, F24F 3/1411, F24F 3/1417, F24F 3/1423, F24F 3/1429, F24F 2003/1435, F24F 2003/144, F24F 2003/1446, F24F 2003/1452, F24F 2003/1458, F24F 2003/1464, F24F 3/147, F24F 3/153, F24F 3/16, F24F 3/1603, F24F 3/1607, F24F 3/161, F24F 2003/1614, F24F 2003/1617, F24F 2003/1621, F24F 2003/1625, F24F 2003/1628, F24F 2003/1632, F24F 2003/1635, F24F 2003/1639, F24F 2003/1642,

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<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title (new or modified)</u> <u>“CPC only” text should normally be enclosed in {curly brackets}**</u>	<u>Transferred to#</u>
				F24F 2003/1646, F24F 2003/165, F24F 2003/1653, F24F 2003/1657, F24F 3/166, F24F 2003/1664, F24F 2003/1667, F24F 2003/1671, F24F 2003/1675, F24F 2003/1678, F24F 2003/1682, F24F 2003/1685, F24F 2003/1689, F24F 2003/1692, F24F 2003/1696
C	F24F 3/04	2	operating with high pressure or high velocity	F24F 3/04, F24F 3/06, F24F 3/065, F24F 3/08, F24F 3/10, F24F 3/12, F24F 3/14, F24F 3/1405, F24F 3/1411, F24F 3/1417, F24F 3/1423, F24F 3/1429, F24F 2003/1435, F24F 2003/144, F24F 2003/1446, F24F 2003/1452, F24F 2003/1458, F24F 2003/1464, F24F 3/147, F24F 3/153, F24F 3/16, F24F 3/1603, F24F 3/1607, F24F 3/161, F24F 2003/1614, F24F 2003/1617, F24F 2003/1621, F24F 2003/1625, F24F 2003/1628, F24F 2003/1632, F24F 2003/1635, F24F 2003/1639, F24F 2003/1642, F24F 2003/1646, F24F 2003/165, F24F 2003/1653, F24F 2003/1657, F24F 3/166, F24F 2003/1664, F24F 2003/1667, F24F 2003/1671, F24F 2003/1675, F24F 2003/1678, F24F 2003/1682, F24F 2003/1685, F24F 2003/1689, F24F 2003/1692, F24F 2003/1696
C	F24F 3/044	1	Systems in which all treatment is given in the central station, i.e. all-air systems	F24F 3/044, F24F 3/02, F24F 3/04
C	F24F 3/0442	2	{with volume control at a constant temperature}	F24F 3/0442, F24F 3/02, F24F 3/04
C	F24F 3/0444	3	{in which two airstreams are conducted from the central station via independent conduits to the space to be treated, of which one has a constant volume and a season-adapted temperature to compensate for the fluctuating heat transfer losses of the building, while the other varies in	F24F 3/0444, F24F 3/02, F24F 3/04

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			volume and is always cold in order to compensate for the interior fluctuations and variable solar heating effects, i.e. so-called "Dual Conduit System"; this system is similar to a high-pressure air-water system}	
C	F24F 2003/0446	2	{with a single air duct for transporting treated air from the central station to the rooms}	F24F2003/0446, F24F 3/02, F24F 3/04
C	F24F 2003/0448	2	{with two air ducts for separately transporting treated hot and cold air from the central station to the rooms}	F24F 2003/0448, F24F 3/02, F24F 3/04
C	F24F 3/048	2	with temperature control at constant rate of air-flow	F24F 3/048, F24F 3/02, F24F 3/04
C	F24F 3/052	3	Multiple duct systems, e.g. systems in which hot and cold air are supplied by separate circuits from the central station to mixing chambers in the spaces to be conditioned	F24F 3/052, F24F 3/02, F24F 3/04
C	F24F 3/0522	4	{in which warm or cold air from the central station is delivered via individual pipes to mixing chambers in the space to be treated, the cold air/warm air ratio being controlled by a thermostat in the space concerned, i.e. so-called Dual-duct System}	F24F 3/0522, F24F 3/02, F24F 3/04
C	F24F 3/0525	4	{in which the air treated in the central station is reheated; this may take place near the central station upon arrival, in the space to be treated, in a branch pipe to zone in a multi-zone system or in the warm pipe in a system having separate supply conduits for warm and cold air}	F24F 3/0525, F24F 3/02, F24F 3/04
C	F24F 3/0527	4	{in which treated air having differing temperatures is conducted through independent conduits from the central station to various spaces to be treated, i.e. so-called "multi-Zone" system; (F24F3/0525 takes precedence)}	F24F 3/0527, F24F 3/02, F24F 3/04

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C	F24F 3/056	2	the air at least partially flowing over lighting fixtures, the heat of which is dissipated or used (outlets for directing or distributing air into rooms or spaces combined with lighting fixtures F24F 13/078)	F24F 3/056, F24F 3/02, F24F 3/04, F24F 3/048, F24F 3/052, F24F 3/0522, F24F 3/0525, F24F 3/0527, F24F 13/078
C	F24F 3/06	1	characterised by the arrangements for the supply of heat-exchange fluid for the subsequent treatment of primary air in the room units	F24F 3/06, F24F 3/12, F24F 3/14, F24F 3/1405, F24F 3/1411, F24F 3/1417, F24F 3/1423, F24F 3/1429, F24F 2003/1435, F24F 2003/144, F24F 2003/1446, F24F 2003/1452, F24F 2003/1458, F24F 2003/1464, F24F 3/147, F24F 3/153, F24F 3/16, F24F 3/1603, F24F 3/1607, F24F 3/161, F24F 2003/1614, F24F 2003/1617, F24F 2003/1621, F24F 2003/1625, F24F 2003/1628, F24F 2003/1632, F24F 2003/1635, F24F 2003/1639, F24F 2003/1642, F24F 2003/1646, F24F 2003/165, F24F 2003/1653, F24F 2003/1657, F24F 3/166, F24F 2003/1664, F24F 2003/1667, F24F 2003/1671, F24F 2003/1675, F24F 2003/1678, F24F 2003/1682, F24F 2003/1685, F24F 2003/1689, F24F 2003/1692, F24F 2003/1696
C	F24F 3/065	2	{with a plurality of evaporators or condensers}	F24F 3/065, F24F 3/12, F24F 3/14, F24F 3/1405, F24F 3/1411, F24F 3/1417, F24F 3/1423, F24F 3/1429, F24F 2003/1435, F24F 2003/144, F24F 2003/1446, F24F 2003/1452, F24F 2003/1458, F24F 2003/1464, F24F 3/147, F24F 3/153, F24F 3/16, F24F 3/1603, F24F 3/1607, F24F 3/161, F24F 2003/1614, F24F 2003/1617, F24F 2003/1621, F24F 2003/1625, F24F 2003/1628, F24F 2003/1632, F24F 2003/1635, F24F 2003/1639, F24F 2003/1642, F24F 2003/1646, F24F 2003/165, F24F 2003/1653, F24F 2003/1657, F24F 3/166, F24F 2003/1664,

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				F24F 2003/1667, F24F 2003/1671, F24F 2003/1675, F24F 2003/1678, F24F 2003/1682, F24F 2003/1685, F24F 2003/1689, F24F 2003/1692, F24F 2003/1696
C	F24F 3/08	2	with separate supply and return lines for hot and cold heat-exchange fluids {i.e. so-called "4-conduit" system}	F24F 3/08, F24F 3/12, F24F 3/14, F24F 3/1405, F24F 3/1411, F24F 3/1417, F24F 3/1423, F24F 3/1429, F24F 2003/1435, F24F 2003/144, F24F 2003/1446, F24F 2003/1452, F24F 2003/1458, F24F 2003/1464, F24F 3/147, F24F 3/153, F24F 3/16, F24F 3/1603, F24F 3/1607, F24F 3/161, F24F 2003/1614, F24F 2003/1617, F24F 2003/1621, F24F 2003/1625, F24F 2003/1628, F24F 2003/1632, F24F 2003/1635, F24F 2003/1639, F24F 2003/1642, F24F 2003/1646, F24F 2003/165, F24F 2003/1653, F24F 2003/1657, F24F 3/166, F24F 2003/1664, F24F 2003/1667, F24F 2003/1671, F24F 2003/1675, F24F 2003/1678, F24F 2003/1682, F24F 2003/1685, F24F 2003/1689, F24F 2003/1692, F24F 2003/1696
C	F24F 3/10	2	with separate supply lines and common return line for hot and cold heat-exchange fluids {i.e. so-called "3-conduit" system}	F24F 3/10, F24F 3/12, F24F 3/14, F24F 3/1405, F24F 3/1411, F24F 3/1417, F24F 3/1423, F24F 3/1429, F24F 2003/1435, F24F 2003/144, F24F 2003/1446, F24F 2003/1452, F24F 2003/1458, F24F 2003/1464, F24F 3/147, F24F 3/153, F24F 3/16, F24F 3/1603, F24F 3/1607, F24F 3/161, F24F 2003/1614, F24F 2003/1617, F24F 2003/1621, F24F 2003/1625, F24F 2003/1628, F24F 2003/1632, F24F 2003/1635, F24F 2003/1639, F24F 2003/1642, F24F 2003/1646, F24F 2003/165, F24F 2003/1653, F24F 2003/1657, F24F 3/166, F24F 2003/1664, F24F 2003/1667, F24F 2003/1671,

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				F24F 2003/1675, F24F 2003/1678, F24F 2003/1682, F24F 2003/1685, F24F 2003/1689, F24F 2003/1692, F24F 2003/1696
E	F24F 3/12	1	characterised by the treatment of the air otherwise than by heating and cooling	
M	F24F 6/14	2	using nozzles	
C	F24F 7/007	1	with forced flow (using ducting systems F24F 7/06)	F24F 7/007, F24F 7/02, F24F 7/025
C	F24F 7/013	2	using wall or window fans, displacing air through the wall or window	F24F 7/013, F24F 7/02, F24F 7/025
E	F24F 7/02	1	Roof ventilation (ventilation of roof coverings E04D)	
M	F24F 7/06	2	with forced air circulation, e.g. by fan {positioning of a ventilator in or against a conduit}	
M	F24F7/065	3	{fan combined with single duct; mounting arrangements of a fan in a duct}	
M	F24F 7/10	3	with air supply, or exhaust, through perforated wall, floor or ceiling (outlet members for directing or distributing air {into rooms or spaces, e.g. ceiling air-diffusers} F24F 13/06)	
U	F24F 9/00	0	Use of air currents for screening, e.g. air curtains	
C	F24F 11/83	3	by controlling the supply of heat-exchange fluids to heat-exchangers	F24F 3/06, F24F 3/065, F24F 3/08, F24F 3/10, F24F 11/83
C	F24F 11/84	4	using valves	F24F 3/06, F24F 3/065, F24F 3/08, F24F 3/10, F24F 11/84
C	F24F 11/85	4	using variable-flow pumps	F24F 3/06, F24F 3/065, F24F 3/08, F24F 3/10, F24F 11/85
M	F24F 12/00	0	Use of energy recovery systems in air conditioning, ventilation or screening (with both heat and humidity transfer between supplied and exhausted air F24F 3/147)	
M	F24F 13/04	2	Air-mixing units (F24F 13/06 takes precedence {; room units for the mixing of pre-treated primary air with recirculated or room air F24F 1/00})	

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E	F24F 13/062	3	having one or more bowls or cones diverging in the flow direction	
E	F24F 13/065	3	formed as cylindrical or spherical bodies which are rotatable	
C	F24F 13/072	3	of elongated shape, e.g. between ceiling panels	F24F 13/072, F24F 13/062, F24F 13/065
E	F24F 13/078	3	combined with lighting fixtures	
C	F24F 13/08	1	Air-flow control members, e.g. louvres, grilles, flaps or guide plates (F24F 7/013, F24F 13/06 take precedence)	F24F 13/08, F24F 7/013
E	F24F 13/10	2	movable, e.g. dampers	
C	F24F 13/18	2	specially adapted for insertion in flat panels, e.g. in door or window-pane	F24F 13/18, F24F 13/10, F24F 13/105, F24F 13/12, F24F 13/14, F24F 13/1406, F24F 13/1413, F24F 13/142, F24F 13/1426, F24F 2013/1433, F24F 2013/144, F24F 2013/1446, F24F 2013/1453, F24F 2013/146, F24F 2013/1466, F24F 2013/1473, F24F 2013/148, F24F 13/1486, F24F 2013/1493, F24F 13/15, F24F 13/16

\*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; E= 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).
- For U groups, the minimum requirement is to include the U group located immediately prior to the N group or N group array, in order to show the N group hierarchy and improve the readability and understanding of the scheme. 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 except “D” which requires only a symbol.
- #“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.

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- For administrative transfer of documents, the following text should be used: “< administrative transfer to XX>” or “<administrative transfer to XX and YY simultaneously>” when administrative transfer of the same documents is to more than one place.
- Administrative transfer to main trunk groups is assumed to be “invention information”, unless otherwise indicated, and to 2000 series groups is assumed to be “additional information”.

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B. New, Modified or Deleted Warning notice(s)

**SUBCLASS F24F - AIR-CONDITIONING, AIR-HUMIDIFICATION, VENTILATION, USE OF AIR CURRENTS FOR SCREENING**

<u>Type*</u>	<u>Location</u>	<u>Old Warning notice</u>	<u>New/Modified Warning notice</u>
N	F24F 3/02		Group F24F 3/02 is incomplete pending reclassification of documents from group F24F 3/044 - F24F3/056. Group F24F 3/02 also impacted by reclassification into groups F24F3/06 - F24F3/10 and F24F3/12 - F24F2003/1696. All groups listed in this Warning should be considered in order to perform a complete search.
N	F24F 3/04		Group F24F 3/04 is incomplete pending reclassification of documents from group F24F 3/044 - F24F3/056. Group F24F 3/04 also impacted by reclassification into groups F24F3/06 - F24F3/10 and F24F3/12 - F24F2003/1696. All groups listed in this Warning should be considered in order to perform a complete search.
N	F24F 3/044		Group F24F 3/044 is impacted by reclassification into groups F24F 3/02 and F24F 3/04. Groups F24F 3/044, F24F 3/02, and F24F 3/04 should be considered in order to perform a complete search.
N	F24F 3/0442		Group F24F 3/0442 is impacted by reclassification into groups F24F 3/02 and F24F 3/04. Groups F24F 3/0442, F24F 3/02, and F24F 3/04 should be considered in order to perform a complete search.
N	F24F 3/0444		Group F24F 3/0444 is impacted by reclassification into groups F24F 3/02 and F24F 3/04. Groups F24F 3/0444, F24F 3/02, and F24F 3/04 should be considered in order to perform a complete search.

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<u>Type*</u>	<u>Location</u>	<u>Old Warning notice</u>	<u>New/Modified Warning notice</u>
N	F24F 2003/0446		Group F24F 2003/0446 is impacted by reclassification into groups F24F 3/02 and F24F 3/04. Groups F24F 2003/0446, F24F 3/02, and F24F 3/04 should be considered in order to perform a complete search.
N	F24F 2003/0448		Group F24F 2003/0448 is impacted by reclassification into groups F24F 3/02 and F24F 3/04. Groups F24F 2003/0448, F24F 3/02, and F24F 3/04 should be considered in order to perform a complete search.
N	F24F 3/048		Group F24F 3/048 is incomplete pending reclassification of documents from group F24F 3/056. Group F24F 3/048 is also impacted by reclassification into groups F24F 3/02 and F24F 3/04. All groups listed in this Warning should be considered in order to perform a complete search.
N	F24F 3/052		Group F24F 3/052 is incomplete pending reclassification of documents from group F24F 3/056. Group F24F 3/052 is also impacted by reclassification into groups F24F 3/02 and F24F 3/04. All groups listed in this Warning should be considered in order to perform a complete search.
N	F24F 3/0522		Group F24F 3/0522 is incomplete pending reclassification of documents from group F24F 3/056. Group F24F 3/0522 is also impacted by reclassification into groups F24F 3/02 and F24F 3/04. 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 notice</u>	<u>New/Modified Warning notice</u>
N	F24F 3/0525		<p>Group F24F 3/0525 is incomplete pending reclassification of documents from group F24F 3/056.</p> <p>Group F24F 3/0525 is also impacted by reclassification into groups F24F 3/02 and F24F 3/04.</p> <p>All groups listed in this Warning should be considered in order to perform a complete search.</p>
N	F24F 3/0527		<p>Group F24F 3/0527 is incomplete pending reclassification of documents from group F24F 3/056.</p> <p>Group F24F 3/0527 is also impacted by reclassification into groups F24F 3/02 and F24F 3/04.</p> <p>All groups listed in this Warning should be considered in order to perform a complete search.</p>
N	F24F 3/056		<p>Group F24F 3/056 is impacted by reclassification into groups F24F 3/02, F24F 3/04, F24F 3/048, F24F3/052, F24F3/0522, F24F3/0525, F24F3/0527, and F24F 13/078.</p> <p>All groups listed in this Warning should be considered in order to perform a complete search.</p>
N	F24F 3/06		<p>Group F24F 3/06 is incomplete pending reclassification of documents from groups F24F 3/02, F24F 3/04, F24F 11/83, F24F 11/84, and F24F 11/85.</p> <p>Group F24F 3/06 is also impacted by reclassification into groups F24F3/12 - F24F2003/1696.</p> <p>All groups listed in this Warning should be considered in order to perform a complete search.</p>

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<u>Type*</u>	<u>Location</u>	<u>Old Warning notice</u>	<u>New/Modified Warning notice</u>
N	F24F 3/065		<p>Group F24F 3/065 is incomplete pending reclassification of documents from groups F24F 3/02, F24F 3/04, F24F 11/83, F24F 11/84, and F24F 11/85.</p> <p>Group F24F 3/065 is also impacted by reclassification into groups F24F3/12 - F24F2003/1696.</p> <p>All groups listed in this Warning should be considered in order to perform a complete search.</p>
N	F24F 3/08		<p>Group F24F 3/08 is incomplete pending reclassification of documents from groups F24F 3/02, F24F 3/04, F24F 11/83, F24F 11/84, and F24F 11/85.</p> <p>Group F24F 3/08 is also impacted by reclassification into groups F24F3/12 - F24F2003/1696.</p> <p>All groups listed in this Warning should be considered in order to perform a complete search.</p>
N	F24F 3/10		<p>Group F24F 3/10 is incomplete pending reclassification of documents from groups F24F 3/02, F24F 3/04, F24F 11/83, F24F 11/84, and F24F 11/85.</p> <p>Group F24F 3/10 is also impacted by reclassification into groups F24F3/12 - F24F2003/1696.</p> <p>All groups listed in this Warning should be considered in order to perform a complete search.</p>
N	F24F 3/12		<p>Group F24F 3/12 is incomplete pending reclassification of documents from groups F24F 3/02, F24F 3/04, F24F 3/06, F24F 3/065, F24F 3/08, and F24F 3/10.</p> <p>All groups listed in this Warning should be considered in order to perform a complete search.</p>
N	F24F 3/14		<p>Group F24F 3/14 is incomplete pending reclassification of documents from groups F24F 3/02, F24F 3/04, F24F 3/06, F24F 3/065, F24F 3/08, and F24F 3/10.</p> <p>All groups listed in this Warning should be considered in order to perform a complete search.</p>

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<u>Type*</u>	<u>Location</u>	<u>Old Warning notice</u>	<u>New/Modified Warning notice</u>
N	F24F 3/1405		Group F24F 3/1405 is incomplete pending reclassification of documents from groups F24F 3/02, F24F 3/04, F24F 3/06, F24F 3/065, F24F 3/08, and F24F 3/10. All groups listed in this Warning should be considered in order to perform a complete search.
N	F24F 3/1411		Group F24F 3/1411 is incomplete pending reclassification of documents from groups F24F 3/02, F24F 3/04, F24F 3/06, F24F 3/065, F24F 3/08, and F24F 3/10. All groups listed in this Warning should be considered in order to perform a complete search.
N	F24F 3/1417		Group F24F 3/1417 is incomplete pending reclassification of documents from groups F24F 3/02, F24F 3/04, F24F 3/06, F24F 3/065, F24F 3/08, and F24F 3/10. All groups listed in this Warning should be considered in order to perform a complete search.
N	F24F 3/1423		Group F24F 3/1423 is incomplete pending reclassification of documents from groups F24F 3/02, F24F 3/04, F24F 3/06, F24F 3/065, F24F 3/08, and F24F 3/10. All groups listed in this Warning should be considered in order to perform a complete search.
N	F24F 3/1429		Group F24F 3/1429 is incomplete pending reclassification of documents from groups F24F 3/02, F24F 3/04, F24F 3/06, F24F 3/065, F24F 3/08, and F24F 3/10. All groups listed in this Warning should be considered in order to perform a complete search.
N	F24F 2003/1435		Group F24F 2003/1435 is incomplete pending reclassification of documents from groups F24F 3/02, F24F 3/04, F24F 3/06, F24F 3/065, F24F 3/08, and F24F 3/10. All groups listed in this Warning should be considered in order to perform a complete search.

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N	F24F 2003/144		Group F24F 2003/144 is incomplete pending reclassification of documents from groups F24F 3/02, F24F 3/04, F24F 3/06, F24F 3/065, F24F 3/08, and F24F 3/10. All groups listed in this Warning should be considered in order to perform a complete search.
N	F24F 2003/1446		Group F24F 2003/1446 is incomplete pending reclassification of documents from groups F24F 3/02, F24F 3/04, F24F 3/06, F24F 3/065, F24F 3/08, and F24F 3/10. All groups listed in this Warning should be considered in order to perform a complete search.
N	F24F 2003/1452		Group F24F 2003/1452 is incomplete pending reclassification of documents from groups F24F 3/02, F24F 3/04, F24F 3/06, F24F 3/065, F24F 3/08, and F24F 3/10. All groups listed in this Warning should be considered in order to perform a complete search.
N	F24F 2003/1458		Group F24F 2003/1458 is incomplete pending reclassification of documents from groups F24F 3/02, F24F 3/04, F24F 3/06, F24F 3/065, F24F 3/08, and F24F 3/10. All groups listed in this Warning should be considered in order to perform a complete search.
N	F24F 2003/1464		Group F24F 2003/1464 is incomplete pending reclassification of documents from groups F24F 3/02, F24F 3/04, F24F 3/06, F24F 3/065, F24F 3/08, and F24F 3/10. All groups listed in this Warning should be considered in order to perform a complete search.
N	F24F 3/147		Group F24F 3/147 is incomplete pending reclassification of documents from groups F24F 3/02, F24F 3/04, F24F 3/06, F24F 3/065, F24F 3/08, and F24F 3/10. All groups listed in this Warning should be considered in order to perform a complete search.

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N	F24F 3/153		Group F24F 3/153 is incomplete pending reclassification of documents from groups F24F 3/02, F24F 3/04, F24F 3/06, F24F 3/065, F24F 3/08, and F24F 3/10. All groups listed in this Warning should be considered in order to perform a complete search.
N	F24F 3/16		Group F24F 3/16 is incomplete pending reclassification of documents from groups F24F 3/02, F24F 3/04, F24F 3/06, F24F 3/065, F24F 3/08, and F24F 3/10. All groups listed in this Warning should be considered in order to perform a complete search.
N	F24F 3/1603		Group F24F 3/1603 is incomplete pending reclassification of documents from groups F24F 3/02, F24F 3/04, F24F 3/06, F24F 3/065, F24F 3/08, and F24F 3/10. All groups listed in this Warning should be considered in order to perform a complete search.
N	F24F 3/1607		Group F24F 3/1607 is incomplete pending reclassification of documents from groups F24F 3/02, F24F 3/04, F24F 3/06, F24F 3/065, F24F 3/08, and F24F 3/10. All groups listed in this Warning should be considered in order to perform a complete search.
N	F24F 3/161		Group F24F 3/161 is incomplete pending reclassification of documents from groups F24F 3/02, F24F 3/04, F24F 3/06, F24F 3/065, F24F 3/08, and F24F 3/10. All groups listed in this Warning should be considered in order to perform a complete search.
N	F24F 2003/1614		Group F24F 2003/1614 is incomplete pending reclassification of documents from groups F24F 3/02, F24F 3/04, F24F 3/06, F24F 3/065, F24F 3/08, and F24F 3/10. 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 notice</u>	<u>New/Modified Warning notice</u>
N	F24F 2003/1617		Group F24F 2003/1617 is incomplete pending reclassification of documents from groups F24F 3/02, F24F 3/04, F24F 3/06, F24F 3/065, F24F 3/08, and F24F 3/10. All groups listed in this Warning should be considered in order to perform a complete search.
N	F24F 2003/1621		Group F24F 2003/1621 is incomplete pending reclassification of documents from groups F24F 3/02, F24F 3/04, F24F 3/06, F24F 3/065, F24F 3/08, and F24F 3/10. All groups listed in this Warning should be considered in order to perform a complete search.
N	F24F 2003/1625		Group F24F 2003/1625 is incomplete pending reclassification of documents from groups F24F 3/02, F24F 3/04, F24F 3/06, F24F 3/065, F24F 3/08, and F24F 3/10. All groups listed in this Warning should be considered in order to perform a complete search.
N	F24F 2003/1628		Group F24F 2003/1628 is incomplete pending reclassification of documents from groups F24F 3/02, F24F 3/04, F24F 3/06, F24F 3/065, F24F 3/08, and F24F 3/10. All groups listed in this Warning should be considered in order to perform a complete search.
N	F24F 2003/1632		Group F24F 2003/1632 is incomplete pending reclassification of documents from groups F24F 3/02, F24F 3/04, F24F 3/06, F24F 3/065, F24F 3/08, and F24F 3/10. All groups listed in this Warning should be considered in order to perform a complete search.
N	F24F 2003/1635		Group F24F 2003/1635 is incomplete pending reclassification of documents from groups F24F 3/02, F24F 3/04, F24F 3/06, F24F 3/065, F24F 3/08, and F24F 3/10. All groups listed in this Warning should be considered in order to perform a complete search.

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N	F24F 2003/1639		Group F24F 2003/1639 is incomplete pending reclassification of documents from groups F24F 3/02, F24F 3/04, F24F 3/06, F24F 3/065, F24F 3/08, and F24F 3/10. All groups listed in this Warning should be considered in order to perform a complete search.
N	F24F 2003/1642		Group F24F 2003/1642 is incomplete pending reclassification of documents from groups F24F 3/02, F24F 3/04, F24F 3/06, F24F 3/065, F24F 3/08, and F24F 3/10. All groups listed in this Warning should be considered in order to perform a complete search.
N	F24F 2003/1646		Group F24F 2003/1646 is incomplete pending reclassification of documents from groups F24F 3/02, F24F 3/04, F24F 3/06, F24F 3/065, F24F 3/08, and F24F 3/10. All groups listed in this Warning should be considered in order to perform a complete search.
N	F24F 2003/165		Group F24F 2003/165 is incomplete pending reclassification of documents from groups F24F 3/02, F24F 3/04, F24F 3/06, F24F 3/065, F24F 3/08, and F24F 3/10. All groups listed in this Warning should be considered in order to perform a complete search.
N	F24F 2003/1653		Group F24F 2003/1653 is incomplete pending reclassification of documents from groups F24F 3/02, F24F 3/04, F24F 3/06, F24F 3/065, F24F 3/08, and F24F 3/10. All groups listed in this Warning should be considered in order to perform a complete search.
N	F24F 2003/1657		Group F24F 2003/1657 is incomplete pending reclassification of documents from groups F24F 3/02, F24F 3/04, F24F 3/06, F24F 3/065, F24F 3/08, and F24F 3/10. All groups listed in this Warning should be considered in order to perform a complete search.

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N	F24F 3/166		Group F24F 3/166 is incomplete pending reclassification of documents from groups F24F 3/02, F24F 3/04, F24F 3/06, F24F 3/065, F24F 3/08, and F24F 3/10. All groups listed in this Warning should be considered in order to perform a complete search.
N	F24F 2003/1664		Group F24F 2003/1664 is incomplete pending reclassification of documents from groups F24F 3/02, F24F 3/04, F24F 3/06, F24F 3/065, F24F 3/08, and F24F 3/10. All groups listed in this Warning should be considered in order to perform a complete search.
N	F24F 2003/1667		Group F24F 2003/1667 is incomplete pending reclassification of documents from groups F24F 3/02, F24F 3/04, F24F 3/06, F24F 3/065, F24F 3/08, and F24F 3/10. All groups listed in this Warning should be considered in order to perform a complete search.
N	F24F 2003/1671		Group F24F 2003/1671 is incomplete pending reclassification of documents from groups F24F 3/02, F24F 3/04, F24F 3/06, F24F 3/065, F24F 3/08, and F24F 3/10. All groups listed in this Warning should be considered in order to perform a complete search.
N	F24F 2003/1675		Group F24F 2003/1675 is incomplete pending reclassification of documents from groups F24F 3/02, F24F 3/04, F24F 3/06, F24F 3/065, F24F 3/08, and F24F 3/10. All groups listed in this Warning should be considered in order to perform a complete search.
N	F24F 2003/1678		Group F24F 2003/1678 is incomplete pending reclassification of documents from groups F24F 3/02, F24F 3/04, F24F 3/06, F24F 3/065, F24F 3/08, and F24F 3/10. All groups listed in this Warning should be considered in order to perform a complete search.

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N	F24F 2003/1682		Group F24F 2003/1682 is incomplete pending reclassification of documents from groups F24F 3/02, F24F 3/04, F24F 3/06, F24F 3/065, F24F 3/08, and F24F 3/10. All groups listed in this Warning should be considered in order to perform a complete search.
N	F24F 2003/1685		Group F24F 2003/1685 is incomplete pending reclassification of documents from groups F24F 3/02, F24F 3/04, F24F 3/06, F24F 3/065, F24F 3/08, and F24F 3/10. All groups listed in this Warning should be considered in order to perform a complete search.
N	F24F 2003/1689		Group F24F 2003/1689 is incomplete pending reclassification of documents from groups F24F 3/02, F24F 3/04, F24F 3/06, F24F 3/065, F24F 3/08, and F24F 3/10. All groups listed in this Warning should be considered in order to perform a complete search.
N	F24F 2003/1692		Group F24F 2003/1692 is incomplete pending reclassification of documents from groups F24F 3/02, F24F 3/04, F24F 3/06, F24F 3/065, F24F 3/08, and F24F 3/10. All groups listed in this Warning should be considered in order to perform a complete search.
N	F24F 2003/1696		Group F24F 2003/1696 is incomplete pending reclassification of documents from groups F24F 3/02, F24F 3/04, F24F 3/06, F24F 3/065, F24F 3/08, and F24F 3/10. All groups listed in this Warning should be considered in order to perform a complete search.
N	F24F 7/007		Group F24F 7/007 is impacted by reclassification into groups F24F 7/02 and F24F 7/025. Groups F24F 7/007, F24F 7/02, and F24F 7/025 should be considered in order to perform a complete search.

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N	F24F 7/013		<p>Group F24F 7/013 is incomplete pending reclassification of documents from group F24F 13/08.</p> <p>Group F24F 7/013 is also impacted by reclassification into groups F24F 7/02 and F24F 7/025.</p> <p>All groups listed in this Warning should be considered in order to perform a complete search.</p>
N	F24F 7/02		<p>Group F24F 7/02 is incomplete pending reclassification of documents from groups F24F 7/007 and F24F 7/013.</p> <p>Groups F24F 7/007, F24F 7/013, and F24F 7/02 should be considered in order to perform a complete search.</p>
N	F24F 7/025		<p>Group F24F 7/025 is incomplete pending reclassification of documents from groups F24F 7/007 and F24F 7/013.</p> <p>Groups F24F 7/007, F24F 7/013, and F24F 7/025 should be considered in order to perform a complete search.</p>
M	F24F 11/83	<p>Group F24F 11/83 is incomplete pending reclassification of documents from groups F24F 11/30 and F24F 11/70.</p> <p>Group F24F 11/83 is also impacted by reclassification into groups F24F 11/84 and F24F 11/85.</p> <p>All groups listed in this Warning should be considered in order to perform a complete search</p>	<p>Group F24F 11/83 is incomplete pending reclassification of documents from groups F24F 11/30 and F24F 11/70.</p> <p>Group F24F 11/83 is also impacted by reclassification into groups F24F 3/06, F24F 3/065, F24F 3/08, F24F 3/10, F24F 11/84, and F24F 11/85.</p> <p>All groups listed in this Warning should be considered in order to perform a complete search.</p>
M	F24F 11/84	<p>Group F24F 11/84 is incomplete pending reclassification of documents from groups F24F 11/30, F24F 11/70 and F24F 11/83.</p> <p>All groups listed in this warning should be considered in order to perform a complete search.</p>	<p>Group F24F 11/84 is incomplete pending reclassification of documents from groups F24F 11/30, F24F 11/70, and F24F 11/83.</p> <p>Group F24F 11/84 is also impacted by reclassification into groups F24F 3/06, F24F 3/065, F24F 3/08, and F24F 3/10.</p> <p>All groups listed in this Warning should be considered in order to perform a complete search.</p>

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M	F24F 11/85	Group F24F 11/85 is incomplete pending reclassification of documents from groups F24F 11/30, F24F 11/70 and F24F 11/83. All groups listed should be considered in order to perform a complete search.	Group F24F 11/85 is incomplete pending reclassification of documents from groups F24F 11/30, F24F 11/70, and F24F 11/83. Group F24F 11/85 is also impacted by reclassification into groups F24F 3/06, F24F 3/065, F24F 3/08, and F24F 3/10. All groups listed in this Warning should be considered in order to perform a complete search.
N	F24F 13/062		Group F24F 13/062 is incomplete pending reclassification of documents from group F24F 13/072. Groups F24F 13/072 and F24F 13/062 should be considered in order to perform a complete search.
N	F24F 13/065		Group F24F 13/065 is incomplete pending reclassification of documents from group F24F 13/072. Groups F24F 13/072 and F24F 13/065 should be considered in order to perform a complete search.
N	F24F 13/072		Group F24F 13/072 is impacted by reclassification into groups F24F 13/062 and F24F 13/065. Groups F24F 13/072, F24F 13/062, and F24F 13/065 should be considered in order to perform a complete search.
N	F24F 13/078		Group F24F 13/078 is incomplete pending reclassification of documents from group F24F 3/056. Groups F24F 3/056 and F24F 13/078 should be considered in order to perform a complete search.
N	F24F 13/08		Group F24F 13/08 is impacted by reclassification into group F24F 7/013. Groups F24F 13/08 and F24F 7/013 should be considered in order to perform a complete search.
N	F24F 13/10		Group F24F 13/10 is incomplete pending reclassification of documents from group F24F 13/18. Groups F24F 13/18 and F24F 13/10 should be considered in order to perform a complete search.

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N	F24F 13/105		Group F24F 13/105 is incomplete pending reclassification of documents from group F24F 13/18. Groups F24F 13/18 and F24F 13/105 should be considered in order to perform a complete search.
N	F24F 13/12		Group F24F 13/12 is incomplete pending reclassification of documents from group F24F 13/18. Groups F24F 13/18 and F24F 13/12 should be considered in order to perform a complete search.
N	F24F 13/14		Group F24F 13/14 is incomplete pending reclassification of documents from group F24F 13/18. Groups F24F 13/18 and F24F 13/14 should be considered in order to perform a complete search.
N	F24F 13/1406		Group F24F 13/1406 is incomplete pending reclassification of documents from group F24F 13/18. Groups F24F 13/18 and F24F 13/1406 should be considered in order to perform a complete search.
N	F24F 13/1413		Group F24F 13/1413 is incomplete pending reclassification of documents from group F24F 13/18. Groups F24F 13/18 and F24F 13/1413 should be considered in order to perform a complete search.
N	F24F 13/142		Group F24F 13/142 is incomplete pending reclassification of documents from group F24F 13/18. Groups F24F 13/18 and F24F 13/142 should be considered in order to perform a complete search.
N	F24F 13/1426		Group F24F 13/1426 is incomplete pending reclassification of documents from group F24F 13/18. Groups F24F 13/18 and F24F 13/1426 should be considered in order to perform a complete search.

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N	F24F 2013/1433		Group F24F 2013/1433 is incomplete pending reclassification of documents from group F24F 13/18. Groups F24F 13/18 and F24F 2013/1433 should be considered in order to perform a complete search.
N	F24F 2013/144		Group F24F 2013/144 is incomplete pending reclassification of documents from group F24F 13/18. Groups F24F 13/18 and F24F 2013/144 should be considered in order to perform a complete search.
N	F24F 2013/1446		Group F24F 2013/1446 is incomplete pending reclassification of documents from group F24F 13/18. Groups F24F 13/18 and F24F 2013/1446 should be considered in order to perform a complete search.
N	F24F 2013/1453		Group F24F 2013/1453 is incomplete pending reclassification of documents from group F24F 13/18. Groups F24F 13/18 and F24F 2013/1453 should be considered in order to perform a complete search.
N	F24F 2013/146		Group F24F 2013/146 is incomplete pending reclassification of documents from group F24F 13/18. Groups F24F 13/18 and F24F 2013/146 should be considered in order to perform a complete search.
N	F24F 2013/1466		Group F24F 2013/1466 is incomplete pending reclassification of documents from group F24F 13/18. Groups F24F 13/18 and F24F 2013/1466 should be considered in order to perform a complete search.
N	F24F 2013/1473		Group F24F 2013/1473 is incomplete pending reclassification of documents from group F24F 13/18. Groups F24F 13/18 and F24F 2013/1473 should be considered in order to perform a complete search.

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<u>Type*</u>	<u>Location</u>	<u>Old Warning notice</u>	<u>New/Modified Warning notice</u>
N	F24F 2013/148		Group F24F 2013/148 is incomplete pending reclassification of documents from group F24F 13/18. Groups F24F 13/18 and F24F 2013/148 should be considered in order to perform a complete search.
N	F24F 13/1486		Group F24F 13/1486 is incomplete pending reclassification of documents from group F24F 13/18. Groups F24F 13/18 and F24F 13/1486 should be considered in order to perform a complete search.
N	F24F 2013/1493		Group F24F 2013/1493 is incomplete pending reclassification of documents from group F24F 13/18. Groups F24F 13/18 and F24F 2013/1493 should be considered in order to perform a complete search.
N	F24F 13/15		Group F24F 13/15 is incomplete pending reclassification of documents from group F24F 13/18. Groups F24F 13/18 and F24F 13/15 should be considered in order to perform a complete search.
N	F24F 13/16		Group F24F 13/16 is incomplete pending reclassification of documents from group F24F 13/18. Groups F24F 13/18 and F24F 13/16 should be considered in order to perform a complete search.
N	F24F 13/18		Group F24F 13/18 is impacted by reclassification into groups F24F 13/10 - F24F13/16. 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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## 2. A. DEFINITIONS (New)

Insert the following NEW definitions.

### F24F 3/06

#### References

##### *Informative references*

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

Arrangement or assembly of components for the regulation of the supply of heating or cooling media for the secondary treatment of air	F24F 11/83
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### F24F 6/14

#### References

##### *Informative references*

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

Nozzles <u>per se</u> , spraying in general	B05B
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### F24F 7/013

#### References

##### *Informative references*

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

With heating elements	F24F 3/00 - F24F 3/14
Room ventilators, portable ventilators	F04D 25/08

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## F24F 7/06

### References

#### *Informative references*

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

Ventilators per se	F04D 25/08
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## F24F 7/065

### References

#### *Informative references*

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

Construction of fans	F04D
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## F24F 13/04

### References

#### *Limiting references*

*This place does not cover:*

Outlets for directing or distributing air into rooms or spaces, e.g. ceiling air diffuser	F24F 13/06
Room units for the mixing of pre-treated primary air with recirculated or room air	F24F 1/00

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**Informative references**

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

Mixing gases in general	<a href="#">B01F 3/02</a>
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**F24F 13/078**

**References**

**Informative references**

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

Air-treatment systems with air-flow over lighting fixtures	<a href="#">F24F 3/056</a>
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**F24F 13/08**

**References**

**Limiting references**

*This place does not cover:*

Ventilation with forced flow-using wall or window fans, displacing air through the wall or window	<a href="#">F24F 7/013</a>
Outlets for directing or distributing air into rooms or spaces, e.g. ceiling air diffuser	<a href="#">F24F 13/06</a>

**Informative references**

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

Roof ventilation	<a href="#">F24F 7/02</a>
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**F24F 13/10**

**References**

***Informative references***

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

Valves in general	<a href="#">F16K</a>
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## 2. A. DEFINITIONS (Modified)

### F24F

#### Definition statement

Insert: The following new paragraphs before the existing paragraphs in the Definition statement section.

Methods and apparatus for air-conditioning, i.e. the supply of air to rooms or spaces by means which provide for the treatment of the air in at least two of the following ways:

- Heating
- Cooling
- Any other kind of treatment, e.g. humidification

Methods and apparatus for humidification of air for rooms or spaces

Methods and apparatus for supplying air or extracting air from rooms or spaces, either by forced movement (for example by fans) or by natural effects (for example convection)

Methods and apparatus for circulating air within rooms or spaces, either by forced movement (for example by fans) or by natural effects (for example convection)

Methods and apparatus for use of air currents for screening, for example of entrances of buildings or of areas where particular operations are performed

Use of energy recovery systems in air conditioning, ventilation or screening

Details, for example control arrangements, safety arrangements, ducting arrangements or air flow control members, which are specially adapted for the methods or apparatus specified above

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## Relationships with other classification places

Insert: The following five new paragraphs before the existing paragraphs in the Relationships with other classification places section.

As regards air-conditioning, air-humidification and ventilation, this subclass is an application-oriented place that covers methods or apparatus for these processes when specially adapted for rooms or spaces that are primarily intended as dwelling or working-spaces for human beings.

Air-treatment or ventilation that is specially adapted for particular processes or for other particular environments, for example for industrial processes or for housing of animals, is covered in the places for those processes or environments. For examples of such places see the section "Examples of places where the subject matter of this subclass is covered when specially adapted, used for a particular purpose, or incorporated in a larger system" below.

With the exception of humidification, this subclass does not cover the mere treatment of air being supplied to, extracted from, or circulated within, rooms or spaces. Such treatment of air in general, for example heating, cooling, heat-exchange or filtering, is covered in several different places of the CPC, see for example the entries under "Informative References" below.

This subclass does not cover elements or apparatus in general for transporting air or for regulating air flow, for example fans, ducts or valves. Such elements and apparatus are covered in several different places in the CPC, see for example the entries under "Informative References" below.

This subclass does not cover ventilation of garments or furniture or other devices, which is covered by the places for those devices, for example classes [A41](#) - [A47](#) for garments and furniture and class [H01](#) for electrical devices.

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## References

### Limiting references

Insert: The following new row in the existing Limiting references table.

Vertical ducts; Channels, e.g. for drainage for carrying away waste gases, e.g. flue gases	E04F 17/02
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Delete: The following 14 existing rows from the Limiting references table.

Devices for ventilating greenhouses	A01G
Animal husbandry	A01K
Disinfecting or sterilising or air	A61L
Filtering, washing or drying of gases	B01D
Ventilation, air-conditioning or cooling specially adapted for vehicles or aircrafts	B60H, B64D 13/00
Fans or blowers per se	F04D
Ducts in general	F16L
Domestic or space-heating systems	F24D
Fluid heaters, water or air-heaters	F24H
Refrigeration machines, systems of plants; heat pumps	F25B
Refrigerators, cold rooms, e.g. for food storage	F25D
Heat-exchanger and details of heat-exchanger	F28D, F28F
Cooling or ventilation of data center	H05K 7/20

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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:*

Ventilating arrangements for forage silos	<a href="#">A01F 25/22</a>
Devices for ventilating greenhouses	<a href="#">A01G 9/24</a>
Air-conditioning systems for greenhouses	<a href="#">A01G 9/246</a>
Ventilation in animal husbandry	<a href="#">A01K</a>
Controlling humidity in incubators for poultry	<a href="#">A01K 41/04</a>
Treatment rooms with artificial climate for medical purposes	<a href="#">A61G 10/02</a> , <a href="#">A61G 13/00</a>
Devices for reconditioning breathing air in sealed rooms or for ventilating gas-proof shelters	<a href="#">A62B 11/00</a>
Devices for ventilating gas-proof shelters	<a href="#">A62B 13/00</a>
Containers or portable cabins for affording breathing protection with devices for reconditioning the breathing air or for ventilating	<a href="#">A62B 31/00</a>
Dust-free rooms or enclosures for laboratories	<a href="#">B01L 1/04</a>
Ventilation, air-conditioning, or cooling, specially adapted for passenger or goods spaces of vehicles	<a href="#">B60H</a>
Air curtains at doors or windows of vehicles	<a href="#">B60J 9/04</a>
Ventilation of driving cabins or engine rooms of locomotives or motor railcars	<a href="#">B61C 17/04</a>
Heating, cooling, ventilating, or air-conditioning, specially adapted for rail vehicles	<a href="#">B61D 27/00</a>
Adaptations of ventilation, cooling, heating, or air-conditioning for submarines or other underwater vessels	<a href="#">B63G 8/36</a>
Arrangements of ventilation, heating, cooling, or air-conditioning specially adapted for ships or other waterborne vessels	<a href="#">B63J 2/00</a>
Arrangements or adaptations of air-treatment apparatus for crew, passenger or freight spaces in aircraft	<a href="#">B64D 13/00</a>
Arrangements or adaptations of devices for treatment of the atmosphere in cosmonautic vehicles	<a href="#">B64G 1/46</a>

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Drying cabinets or drying chambers having heating or ventilating means	D06F 58/10
Special arrangement or operation of ventilating devices in lavatories	E03D 9/04
Drying building constructions in general or keeping them dry, e.g. by air vents	E04B 1/70
Special adaptations of floors for incorporating ventilation ducts	E04B 5/48
Ceilings having means for ventilation	E04B 9/02
Ventilation of roof coverings	E04D 13/17
Ventilation of tents	E04H 15/10
Ventilation in doors or windows	E06B 7/02
Ventilation of mines or tunnels	E21F 1/00
Cooling or drying of air in mines or tunnels	E21F 3/00
Arrangements for supplying or controlling air or gases for drying solid materials or objects	F26B 21/00
Cooling, ventilating or heating of electric apparatus	H05K 7/20

Insert: The following new Informative references section.

### **Informative references**

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

Disinfecting or sterilising of air	A61L
Filtering, washing or drying of gases	B01D
Mixing gases with vapours or liquids in general	B01F 3/02
Transportable units for separating dispersed particles from air by electrostatic effect	B03C 3/32
Spraying	B05B, B05D
Production of ozone	C01B 13/10
Heat, sound or noise insulation, absorption, or reflection	E04B 1/74
Air-ducts or air channels in buildings	E04F 17/04
Chimney stacks or similar ducts	E04H 12/28
Fans in general, details of fans	F04D
Pumping installations for air	F04D 25/08, F04D 29/00
Valves in general	F16K
Pipes in general, joints, fittings or supports therefor	F16L

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Noise absorbers for ducting	F16L 55/02
Thermal insulation for ducting	F16L 59/00
Devices for venting or aerating enclosures in general	F16K 24/00
Devices for conducting smoke or fumes, e.g. flues	F23J 11/00
Air supply; draught-inducing; supplying non-combustible liquid or gas, tops for chimneys and ventilating shafts	F23L
Domestic stoves	F24B, F24C
Domestic or space-heating systems	F24D
Hot air central heating systems	F24D 5/00
Fluid heaters, water or air-heaters	F24H
Air heaters having heat generating means	F24H 3/00
Refrigeration in general, details of refrigeration systems	F25B
Combined heating and refrigeration systems	F25B 29/00
Production, working, storing or distribution of ice	F25C
Refrigerators, cold rooms, e.g. for food storage	F25D
Heat exchange apparatus in general, details of heat exchangers	F28C, F28D, F28F
Measuring temperature or quantity of heat in general	G01K
Testing apparatus not otherwise provided for	G01M
Control of flow in general	G05D 7/00
Control of humidity in general	G05D 22/00
Control of temperature in general	G05D 23/00
Ion sources	H01J 27/02, H01J 37/08
Arrangements for cooling, heating or ventilation of semiconductor or other solid state devices	H01L 23/34, H01L 31/024
Apparatus for generating ions to be introduced into non-enclosed gases	H01T 23/00
Arrangements in telecontrol or telemetry systems in general	H04Q 9/00

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## Special rules of classification

Delete: The following existing paragraph from the Special rules of classification section.

Air-humidification per se, e.g. "room humidifiers", is covered by group F24F 6/00. Air-humidification as auxiliary treatment in air-conditioning, i.e. in units wherein the air is also either cooled or heated is covered by group F24F 3/14.

Replace: The deleted paragraph with the following two new paragraphs in the Special rules of classification section.

Air-humidification as auxiliary treatment in air-conditioning, i.e. in units wherein the air is also either cooled or heated, is covered by groups [F24F 1/00](#) or [F24F 3/14](#), while air-humidification per se, e.g. "room humidifiers", is covered by group [F24F 6/00](#).

Looping references between [B08B 15/00](#) and [F24F](#) have been identified. Until this inconsistency is resolved, the current classification practice in CPC is as follows: [B08B 15/00](#) is a limiting reference for subclass [F24F](#). [F24F](#) is an informative reference for main group [B08B 15/00](#).

## Glossary of terms

Delete: From the second column of the Glossary of terms table, the text/meaning shown for the term "Air-conditioning".

Air treatment of room air or spaces comprising at least cooling

Replace: In the Glossary of terms table, in the same second column location, the following text/meaning for "Air-conditioning".

Supply of air to rooms or spaces by means which provide for the treatment of the air in at least two of the following ways: heating, cooling, any other kind of treatment, e.g. humidification.

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Delete: From the second column of the Glossary of terms table, the text/meaning shown for the term “Ventilation”.

Supplying air to the room, exhausting air from the room and circulating air within the room

Replace: In the Glossary of terms table, in the same second column location, the following text/meaning for “Ventilation”.

Supply of air to rooms or spaces, extraction of air from rooms or spaces, or circulation of air within rooms or spaces

## **Synonyms and Keywords**

Delete: The entire Synonyms and Keywords section.

## **Synonyms and Keywords**

*In patent documents the following abbreviations are often used:*

HVAC	Heating, ventilating and air conditioning
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2. B. DEFINITIONS QUICK FIX

<u>Symbol</u>	<u>Location of change</u> (e.g., section title)	<u>Existing reference symbol or text</u>	<u>Action; New symbol; New text</u>
F24F 9/00	Application-oriented references		<p><b>Insert</b> the following <u>new</u> Application-oriented references section.</p> <p><b>Application-oriented references</b></p> <p><i>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:</i></p> <p>Air curtain for vehicles <b>B60J 9/04</b></p>
F24F 9/00	Informative references	Air curtain for vehicles B60J 9/04	<p><b>Delete</b> the following <u>existing</u> row from the Informative references table.</p> <p>Air curtain for vehicles B60J 9/04</p>
F24F 11/00	Informative references		<p><b>Insert</b> the following <u>new</u> row in the Informative references table.</p> <p>Humidity control <b>G05D 22/00</b></p>
F24F 12/00	Informative references	Heat-exchange in general F28D	<p><b>Delete</b> the following <u>existing</u> row from the Informative references table.</p> <p>Heat-exchange in general F28D</p>
F24F 12/00	Informative references		<p><b>Insert</b> the following <u>new</u> row in the Informative references table.</p> <p>Heat-exchange apparatus, not provided for in another subclass, in which the heat-exchange media do not come into direct contact <b>F28D</b></p>
F24F 12/00	Informative references		<p><b>Insert</b> the following <u>new</u> row in the Informative references table.</p> <p>Heat-exchange in general <b>F28</b></p>

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NOTES:

- The table above is used for corrections or modifications to existing definitions, e.g. delete an entire definition or part thereof; propose new wording or modify wording of a section, change the symbol the definition is associated with, change or delete a reference symbol, etc.
- Do not delete (F) symbol definitions.

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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	F24F 3/02	F24F 3/02, F24F 3/06, F24F 3/065, F24F 3/08, F24F 3/10, F24F 3/12, F24F 3/14, F24F 3/1405, F24F 3/1411, F24F 3/1417, F24F 3/1423, F24F 3/1429, F24F 2003/1435, F24F 2003/144, F24F 2003/1446, F24F 2003/1452, F24F 2003/1458, F24F 2003/1464, F24F 3/147, F24F 3/153, F24F 3/16, F24F 3/1603, F24F 3/1607, F24F 3/161, F24F 2003/1614, F24F 2003/1617, F24F 2003/1621, F24F 2003/1625, F24F 2003/1628, F24F 2003/1632, F24F 2003/1635, F24F 2003/1639, F24F 2003/1642, F24F 2003/1646, F24F 2003/165, F24F 2003/1653, F24F 2003/1657, F24F 3/166, F24F 2003/1664, F24F 2003/1667, F24F 2003/1671, F24F 2003/1675, F24F 2003/1678, F24F 2003/1682, F24F 2003/1685, F24F 2003/1689, F24F 2003/1692, F24F 2003/1696
C	F24F 3/04	F24F 3/04, F24F 3/06, F24F 3/065, F24F 3/08, F24F 3/10, F24F 3/12, F24F 3/14, F24F 3/1405, F24F 3/1411, F24F 3/1417, F24F 3/1423, F24F 3/1429, F24F 2003/1435, F24F 2003/144, F24F 2003/1446, F24F 2003/1452, F24F 2003/1458, F24F 2003/1464, F24F 3/147, F24F 3/153, F24F 3/16, F24F 3/1603, F24F 3/1607, F24F 3/161, F24F 2003/1614, F24F 2003/1617, F24F 2003/1621, F24F 2003/1625, F24F 2003/1628, F24F 2003/1632, F24F 2003/1635, F24F 2003/1639, F24F 2003/1642, F24F 2003/1646, F24F 2003/165, F24F 2003/1653, F24F 2003/1657, F24F 3/166, F24F 2003/1664, F24F 2003/1667, F24F 2003/1671, F24F 2003/1675, F24F 2003/1678, F24F 2003/1682, F24F 2003/1685, F24F 2003/1689, F24F 2003/1692, F24F 2003/1696
C	F24F 3/044	F24F 3/044, F24F 3/02, F24F 3/04
C	F24F 3/0442	F24F 3/0442, F24F 3/02, F24F 3/04
C	F24F 3/0444	F24F 3/0444, F24F 3/02, F24F 3/04
C	F24F 2003/0446	F24F2003/0446, F24F 3/02, F24F 3/04

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<u>Type*</u>	<u>From CPC Symbol (existing)</u>	<u>To CPC Symbol(s)</u>
C	F24F 2003/0448	F24F 2003/0448, F24F 3/02, F24F 3/04
C	F24F 3/048	F24F 3/048, F24F 3/02, F24F 3/04
C	F24F 3/052	F24F 3/052, F24F 3/02, F24F 3/04
C	F24F 3/0522	F24F 3/0522, F24F 3/02, F24F 3/04
C	F24F 3/0525	F24F 3/0525, F24F 3/02, F24F 3/04
C	F24F 3/0527	F24F 3/0527, F24F 3/02, F24F 3/04
C	F24F 3/056	F24F 3/056, F24F 3/02, F24F 3/04, F24F 3/048, F24F 3/052, F24F 3/0522, F24F 3/0525, F24F 3/0527, F24F 13/078
C	F24F 3/06	F24F 3/06, F24F 3/12, F24F 3/14, F24F 3/1405, F24F 3/1411, F24F 3/1417, F24F 3/1423, F24F 3/1429, F24F 2003/1435, F24F 2003/144, F24F 2003/1446, F24F 2003/1452, F24F 2003/1458, F24F 2003/1464, F24F 3/147, F24F 3/153, F24F 3/16, F24F 3/1603, F24F 3/1607, F24F 3/161, F24F 2003/1614, F24F 2003/1617, F24F 2003/1621, F24F 2003/1625, F24F 2003/1628, F24F 2003/1632, F24F 2003/1635, F24F 2003/1639, F24F 2003/1642, F24F 2003/1646, F24F 2003/165, F24F 2003/1653, F24F 2003/1657, F24F 3/166, F24F 2003/1664, F24F 2003/1667, F24F 2003/1671, F24F 2003/1675, F24F 2003/1678, F24F 2003/1682, F24F 2003/1685, F24F 2003/1689, F24F 2003/1692, F24F 2003/1696

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C	F24F 3/065	F24F 3/065, F24F 3/12, F24F 3/14, F24F 3/1405, F24F 3/1411, F24F 3/1417, F24F 3/1423, F24F 3/1429, F24F 2003/1435, F24F 2003/144, F24F 2003/1446, F24F 2003/1452, F24F 2003/1458, F24F 2003/1464, F24F 3/147, F24F 3/153, F24F 3/16, F24F 3/1603, F24F 3/1607, F24F 3/161, F24F 2003/1614, F24F 2003/1617, F24F 2003/1621, F24F 2003/1625, F24F 2003/1628, F24F 2003/1632, F24F 2003/1635, F24F 2003/1639, F24F 2003/1642, F24F 2003/1646, F24F 2003/165, F24F 2003/1653, F24F 2003/1657, F24F 3/166, F24F 2003/1664, F24F 2003/1667, F24F 2003/1671, F24F 2003/1675, F24F 2003/1678, F24F 2003/1682, F24F 2003/1685, F24F 2003/1689, F24F 2003/1692, F24F 2003/1696
C	F24F 3/08	F24F 3/08, F24F 3/12, F24F 3/14, F24F 3/1405, F24F 3/1411, F24F 3/1417, F24F 3/1423, F24F 3/1429, F24F 2003/1435, F24F 2003/144, F24F 2003/1446, F24F 2003/1452, F24F 2003/1458, F24F 2003/1464, F24F 3/147, F24F 3/153, F24F 3/16, F24F 3/1603, F24F 3/1607, F24F 3/161, F24F 2003/1614, F24F 2003/1617, F24F 2003/1621, F24F 2003/1625, F24F 2003/1628, F24F 2003/1632, F24F 2003/1635, F24F 2003/1639, F24F 2003/1642, F24F 2003/1646, F24F 2003/165, F24F 2003/1653, F24F 2003/1657, F24F 3/166, F24F 2003/1664, F24F 2003/1667, F24F 2003/1671, F24F 2003/1675, F24F 2003/1678, F24F 2003/1682, F24F 2003/1685, F24F 2003/1689, F24F 2003/1692, F24F 2003/1696
C	F24F 3/10	F24F 3/10, F24F 3/12, F24F 3/14, F24F 3/1405, F24F 3/1411, F24F 3/1417, F24F 3/1423, F24F 3/1429, F24F 2003/1435, F24F 2003/144, F24F 2003/1446, F24F 2003/1452, F24F 2003/1458, F24F 2003/1464, F24F 3/147, F24F 3/153, F24F 3/16, F24F 3/1603, F24F 3/1607, F24F 3/161, F24F 2003/1614, F24F 2003/1617, F24F 2003/1621, F24F 2003/1625, F24F 2003/1628, F24F 2003/1632, F24F 2003/1635, F24F 2003/1639, F24F 2003/1642, F24F 2003/1646, F24F 2003/165, F24F 2003/1653, F24F 2003/1657, F24F 3/166, F24F 2003/1664, F24F 2003/1667, F24F 2003/1671, F24F 2003/1675, F24F 2003/1678, F24F 2003/1682, F24F 2003/1685, F24F 2003/1689, F24F 2003/1692, F24F 2003/1696
C	F24F 7/007	F24F 7/007, F24F 7/02, F24F 7/025
C	F24F 7/013	F24F 7/013, F24F 7/02, F24F 7/025

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<b><u>Type*</u></b>	<b><u>From CPC Symbol (existing)</u></b>	<b><u>To CPC Symbol(s)</u></b>
C	F24F 11/83	F24F 3/06, F24F 3/065, F24F 3/08, F24F 3/10, F24F 11/83
C	F24F 11/84	F24F 3/06, F24F 3/065, F24F 3/08, F24F 3/10, F24F 11/84
C	F24F 11/85	F24F 3/06, F24F 3/065, F24F 3/08, F24F 3/10, F24F 11/85
C	F24F 13/072	F24F 13/072, F24F 13/062, F24F 13/065
C	F24F 13/08	F24F 13/08, F24F 7/013
C	F24F 13/18	F24F 13/18, F24F 13/10, F24F 13/105, F24F 13/12, F24F 13/14, F24F 13/1406, F24F 13/1413, F24F 13/142, F24F 13/1426, F24F 2013/1433, F24F 2013/144, F24F 2013/1446, F24F 2013/1453, F24F 2013/146, F24F 2013/1466, F24F 2013/1473, F24F 2013/148, F24F 13/1486, F24F 2013/1493, F24F 13/15, F24F 13/16

\* 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.

NOTES:

- Only C, D, F and Q type entries are included in the table above.
- When multiple symbols are included in the “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>” or “<administrative transfer to XX and YY simultaneously>” when administrative transfer of the same documents is to more than one place.
- Administrative transfer to main trunk groups is assumed to be “invention information”, unless otherwise indicated, and to 2000 series groups is assumed to be “additional information”.