

(一)以党中央、国务院重要部署为指导。

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(二)以推动绿色技术创新为导向。



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| | | E21B43/24, E21F15/00 |
| 1.1.1.6 | | : E21B21/08, E21B44/00, E21F17/18 |
| 1.1.1.7 | | : B03, B07B, B07C5/00; B03B13/00, B07B13/04 |
| 1.1.1.8 | | : F24D3/18, F24D12/02, F24H4/00, F25B30/06 |
| 1.1.1.9 | | : E21B43/12, E21B43/16, E21B43/25, E21C25/00, E21 C27/00, E21C29/00, E21C31/00, E21C35/00, E21C37 /00, E21C39/00, E21F1/00, E21F13/00, E21F17/00 |
| 1.1.2 | | |
| 1.1.2.1 | | : F01D15/10, F01K23/02, F02C6/00 |
| 1.1.2.2 | | : F01K7/32, F22B3/08, F22B35/12 : F01K25/10 |
| 1.1.2.3 | | : F01K9/00, F01K13/00, F01K17/00, F01K19/00, F02G 5/02, F25B27/02 |
| 1.1.2.4 | | : H02J3/38 |
| 1.1.3 | | |
| 1.1.3.1 | | : F23K1/00; C10J3/00, C10L5/02, C10L9/00, C10L10/00 |
| 1.1.3.2 | | : F02B45/02 : F23D14/26, F23D14/32, F23D14/58, F23D14/66, F23 D23/00, F23L7/00, F23L15/00, F23R3/28, F24V30/0 0, F27B1/26, F27B1/28, F27B3/28, F27B5/18, F27B7 /42, F27B9/40, F27B13/14, F27B14/20, F27D19/00, F27D21/00; F23B10/00, F23B70/00, F23C6/00, F23K3/00, F23N, F23R |

1. 1. 3. 3

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C10B53/04

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C10B21/00, C10B39/00, C10B41/00, C10B47/00, C10
B49/00, C10B5

1.2.2

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1.2.2.1

C10G1/06, C10G45/00, C10G47/00, C10G49/00, C10G65/00, C10G67/00, C10G69/00;

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C07C7/163

1.2.2.2

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C01B3/00 (NOT: C01B3/04)

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C10G11/05, C10G11/14

1.2.2.3

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) C07C7/04, C07C11/02, F25J3/02;
C10

1.2.3

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1.2.3.1

E21B43/12, E21B43/14, E21B43/16, E21B43/25, E21B43/34, E21F7/00, E21F17/18;
E21

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1.2.3.2

C01B3/32, C07C2/00, C07C7/00, C07C11/02, C07C11/24, C07C29/151

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1.2.3.3

C07C31/04;
C10L3/06

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2.1.1

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2.1.1.1

F03B1/00, F03B3/00, F03B13/00 (NOT: F03B13/02 OR F03B13/04 OR F03B13/12), F03B15/00, H02P101/10

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H02K

2.1.1.2

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E02B9/00 (NOT: E02B9/08)

2.1.2

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F03B7/00, F03B17/02 (NOT: F03B17/04), F03B17/06

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| | | F02C1/05, F24C9/00, F24D101/40, F24J2/00, F24S |
| 2.2.2 | | |
| 2.2.2.1 | | ∴ H01G9/20, H01M14/00 |
| 2.2.2.2 | | ∴ H01L51/42, H10K30/00, H10K39/10 |
| 2.2.2.3 | | ∴ H01L31/0248 |
| 2.2.2.4 | 、 、 | ∴ E04D13/18, H01L31/02, H01L31/04 |
| 2.2.2.5 | | ∴ H02S |
| 2.2.3 | | ∴ F03G6/00 |
| 2.3 | | |
| 2.3.1 | | ∴ F03D, H02P101/15 |
| 2.3.2 | | ∴ F04B17/02 |
| 2.4 | | |
| 2.4.1 | | |
| 2.4.1.1 | | ∴ F03B13/12 |
| 2.4.1.2 | | ∴ E02B9/08 |
| 2.4.2 | (OTEC) | ∴ F03G7/05 |
| 2.5 | | |
| 2.5.1 | | ∴ F24J3/08, F24T |
| 2.5.2 | | ∴ F03G4/00 |
| 2.6 | | |
| 2.6.1 | | ∴ C01B3/00 ∴ B01J27/24, C12P3/00, C25B1/00, C25B9/00, C25B15/00 |
| 2.6.2 | | |
| 2.6.2.1 | | ∴ |

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2.6.2.2

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3. 2. 1 :
F24H7/00, F28D20/00

3. 2. 2 :
C09K5/00, F22B1/06

3. 3

3. 3. 1 :
H01M2/00, H01M4/00, H01M10/00, H01M50/00

3. 3. 2 :
H01G11/00

3. 3. 3 :
B60K1/04, B60K6/28, B60L50/40, B60L50/50, B60L5
8/00, B60R16/033, B60R16/04, B60W10/26

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4. 1. 1 :


ВЕРИТИЗ

НОСИТИЗ

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| 4.3 | | |
| 4.3.1 | | : F21K9/00, F21Y115/00, H05B33/00, H05B45/00 : F21S2/00, F21S4/00, F21S6/00, F21S8/00, F21S9/00, F21S10/00, F21S11/00, F21S13/00, F21S15/00, F21S19/00, F21V, F21Y, H01L33/00, H05B35/00, H05B47/00 |
| 4.3.2 | | : F15B9/03, F15B9/17, F15B21/08, F16D27/00, F16D28/00, F16D48/06, H04W52/02 |
| 4.3.3 | | : G01R31/00 (NOT G01R31/01, G01R31/24, G01R31/26, G01R31/34, G01R31/44), G05B19/02, G06Q50/06, H02J3/00, H02J4/00, H02J5/00, H02J13/00; H02B, H02J, H02M; H02J1/00, H02J7/35 |
| 4.4 | | |
| 4.4.1 | | : B05B1/02, B05B1/26, B05B1/28, B05B1/30, B05B1/34, B05B3/00, E02B11/00, E02B13/00 |
| 4.4.2 | | : B05B1/02, B05B1/14, B05B1/26, B05B1/28, B05B1/30, B05B1/34, E03D1/12, E03D1/14 |
| 4.4.3 | , | : F16K21/02, F16K21/04, F16K23/00, F16K31/18, F16K37/00 |
| 5 | | |
| 5.1 | CO ₂ | |
| 5.1.1 | | |
| 5.1.1.1 | | : B01D53/02, B01J20/00 |
| 5.1.1.2 | | : B01D53/14 |
| 5.1.1.3 | / | : F25J3/00 |
| 5.1.1.4 | | : B01D53/34 (NOT: B01D53/84) |

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| 5.1.1.5 | | ∴ B01D53/84 |
| 5.1.1.6 | | ∴ B01D53/22, B01D53/24, B01D53/26, B01D53/30, B01D53/32, C12M1/00; C01B31/20, C01B31/22, C01B32/50, C01B32/55 |
| 5.1.2 | | |
| 5.1.2.1 | CO ₂ | ∴ C01B31/22, C01B32/55, C07C1/12, C07C273/04, C07C51/15, C07C68/04 ∴ B29, C01B32/60, C07C263/04, C07C265/00, C07C269/04, C07C271/00, C07C69/96, C07D317/34, C08, C10B53/07, C25B3/04, C25B3/26 |
| 5.1.2.2 | | ∴ B28B11/24, C04 |
| 5.1.2.3 | | ∴ C07C29/151, C07C29/153, C07C29/154 |
| 5.1.2.4 | | ∴ A23L, C12C, C12F3/00, C12G3/00 |
| 5.1.2.5 | | ∴ A62C13/00, A62D1/00 |
| 5.1.2.6 | | ∴ F25B, F25D3/12, F25J1/00 |
| 5.1.3 | | |
| 5.1.3.1 | | ∴ B65G5/00, E21B41/00, E21B43/00, E21F15/08, E21F17/16 |
| 5.1.3.2 | | ∴ F17C1/00, F17C3/00 |
| 5.1.3.3 | | ∴ G01M, G01N |
| 5.1.3.4 | | ∴ C01B31/20, C01B31/22, C01B32/50, C01B32/55 |
| 5.2 | | |
| 5.2.1 | | ∴ B01D15/00, B01D46/00, B01D53/00, B01J20/00, G01N30/00 |
| 5.2.2 | | ∴ B01D15/00, B01D46/00, B01D53/00, B01J20/00, G01 |

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| | | N30/00 |
| 5. 2. 3 | | : B01D15/00, B01D46/00, B01D53/00, B01J20/00, G01 N30/00 |
| 6 | | |
| 6. 1 | | |
| 6. 1. 1 | | : F01K5/00, F02B41/10, F02M26/00, F24D1/04 |
| 6. 2 | | |
| 6. 2. 1 | | : E03B3/02, E03B3/28, E03B3/30, E03C1/12, E03F5/1 0, F22D11/06, F23G7/04, F23G7/05, F24F13/22, F28 B9/04, F28B9/08 |
| 6. 3 | | |
| 6. 3. 1 | | : B29B17/00, C08J11/00, C10G1/10 : B29B7/00, B29B9/00, B29B11/00, B29B13/00, B29B1 5/00, B29C, B29D |
| 6. 3. 2 | | : C21B3/00, C21B5/00, C21B11/00, C21B13/00, C21B1 5/00, C21C5/00, C21C7/00, C22B |
| 6. 3. 3 | | : A23K10/26, A23K10/37, B62D67, C05D3/04, D01C5/0 0, D01F13/00, D01G15/72, D06B9/06, D06F43/08, D0 6L1/10, D21B1/08, D21B1/32, D21C5/02, D21C11/00 , D21H13/08, D21H17/01, E01C19/10, F23G7/02, F23 G7/10, F23G7/12, H01J9/50, H01J9/52, H01M8/008 |
| 6. 4 | | |
| 6. 4. 1 | | : B60L7/10, B60T1/10, D21F5/20, F01K17/02, F01K17 /06, F01K27/02, F02C7/10, F02G5/00, F15B21/14, F 16D61/00, F17C9/04, F22B1/16, F22B1/18, F22D1/4 0, F22G1/02, F22G1/12, F22G5/06, F23G5/46, F24F3 /147, F24F12/00, F24H8/00, F27D17/00, F28C1/08 |
| 7 |  | |
| 7. 1 | | |
| 7. 1. 1 | | : A01P1/00, B01D39/00, B01D71/00, (B01F17/00 NOT B01F17/50), B01J20/00, B01J21/00, B01J23/00, B0 |

1J25/00, B01J27/00, B01J29/00, B01J31/00, C01B3
7/00, C01B39/00, C08F4/00, C09C1/00, C09C3/00, C
09K3/22, (C09K23/00 NOT C09K23/50)

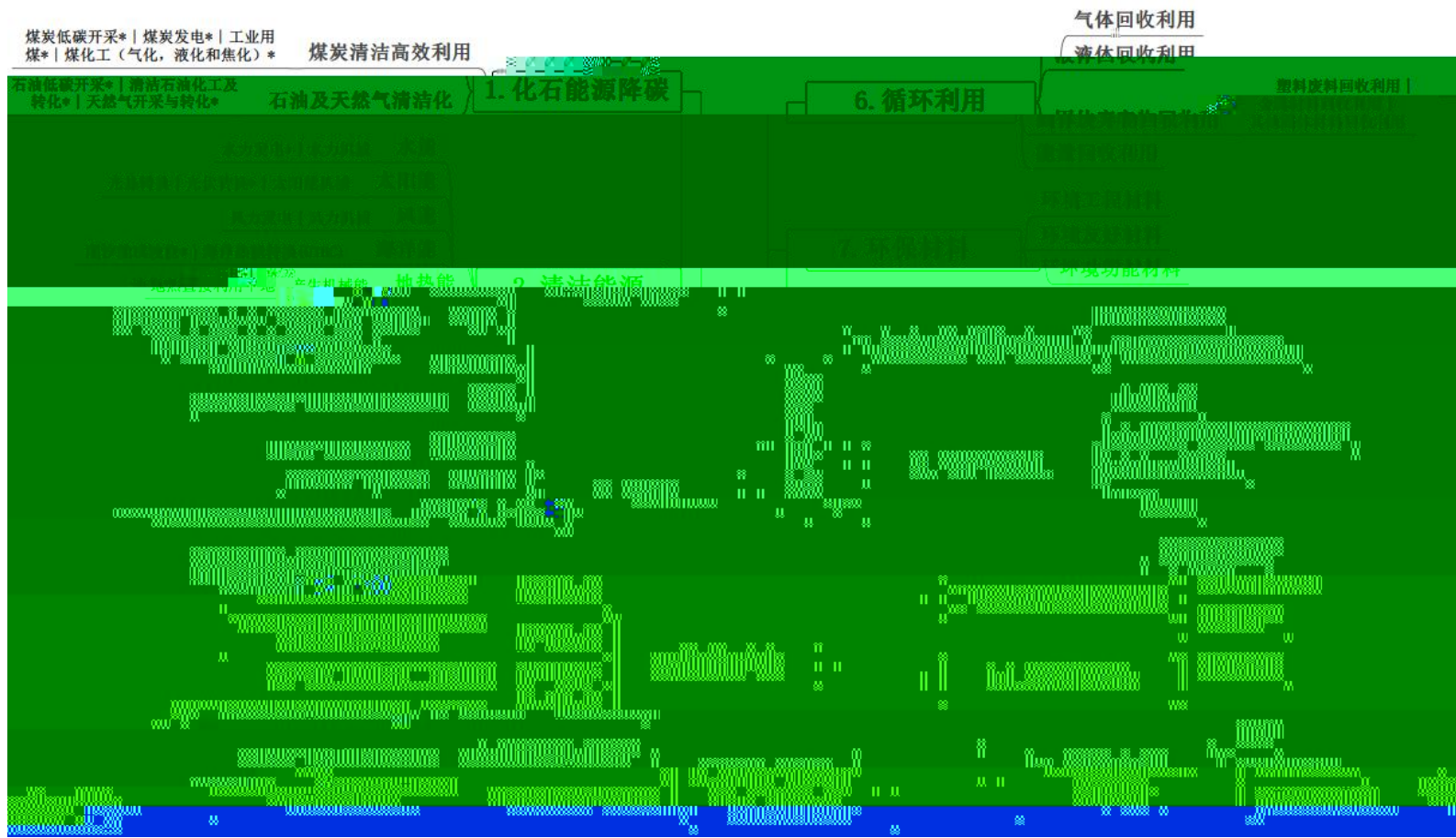
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| 8.2 | | |
| 8.2.1 | (包) | ： A62D3/00, B08B15/00, B08B17/00, G21F9/00 |
| 8.2.2 | | ： B01D45/00, B01D46/00, B01D47/00, B01D49/00, B01D50/00, B01D53/00, B03C1/00, B03C3/00, B60W20/16, C01B17/60, C21B5/06, C21B7/22, E21F5/00, F01N3/00, F02B75/10, F23G7/06 |
| 8.2.3 | (包) | ： A61L11/00, B09B1/00, B09B3/00, B09B5/00, B65B55/24, C04B7/14, C04B7/24, C04B18/00, C05F1/00, C05F3/00, C05F5/00, C05F7/00, C05F9/00, C05F15/00, C09K11/01, C10G1/10, C10G17/10, C10G19/08, C10G25/12, C11B13/00, C11D19/00, C14C3/32, C22B7/00, C22B19/30, C22B25/06, E01H1/00, H01B15/00 |
| 8.2.4 | | ： A01G11/00, B09C, E02D3/00, F23G7/14 |
| 8.2.5 | | ： C02F |
| 9 | | |
| 9.1 | | |
| 9.1.1 | | ： B60L8/00, B60L9/00, B60L11/00, B60L15/00, B60L50 |
| 9.1.2 | 安 | ： B60K1/00 NOT B60K1/04, B60K6/00 NOT (B60K6/28 OR B60K6/30), B60K11/00, B60K16/00, B60K17/00 |
| 9.1.3 | | ： H02K1, H02K3, H02K9, H02K16, H02K17, H02K19, H02K21, H02K25, H02K29/06 |
| 9.1.4 | | ： B60W10/00 NOT B60W10/26, B60W20/00 NOT B60W20/16 |
| 9.2 | 、 | |
| 9.2.1 | 、 | ： B60L53, B60S5/02, B60S5/06, F17C, H02J7 |
| 9.3 | | |
| 9.3.1 | | ： |

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| | (氨) | F02B, F02D, F02M |
| 9.4 | | |
| 9.4.1 | | : B61D, B61F3/14, B61H9/06, B61L |
| 9.4.2 | | : B63B1/16, B63B1/34, B63B1/40, B63B3/24, B63H8/40, B63H9, B63H11/103, B63H13, B63H19/02-04, B63H19/06, B63H21/18 |
| 9.4.3 | | : B64C27/30, B64D27/22, B64D27/24 |
| 10 | / | |
| 10.1 | | : A01C23/04, A01G25/00, A01G27/00, A01G29/00, E02B13/00 |
| 10.2 | | : A01M1/00, A01M3/00, A01M5/00, A01M7/00, A01M9/00, A01M11/00, A01M13/00, A01M15/00, A01M17/00, A01M19/00, A01N25/32, A01N63/00, A01N65/00 |
| 10.3 | | : (C05G3/00 NOT C05G3/02), (C05G3/00 NOT C05G3/60), C09K17/00 |
| 11 | | |
| 11.1 | | : C09D7/00, E04B1/76, E04B1/88, E04D13/16, E04F13/075, E04F15/18, E06B1/00, E06B3/00, E06B5/00, F24F |
| 12 | | |
| 12.1 | 、 (HOV)、 办 | : H04L29/00, H04L67/00, G06Q, G07C1/00, G08G |
| 12.2 | | : G06Q30/00, G06Q40/00, G06Q50/00 |
| 12.3 | 、 | : E04B1/00, E04H1/00, E04H3/00 |

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2.

绿色技术分支架构



绿色技术专利分类体系参考检索式

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E02D17/20, E02D19/06 (OR COAL) (2N) (OR PDY=[2016 TO 2025] AND (IPCM-LOW=(E02D17/20 OR OR EXCAVAT* OR OR E02D19/06) AND TIABC=((OR COAL) (2N) MINE OR MINING OR (OR OR OR EXCAVAT* OR MINE OR PRODUCTING) MINING OR PRODUCTING)))

E21C41/16, E21F15/00, E21F17/00 (OR COAL) AND (((PDY=[2016 TO 2025] AND (IPCM-LOW=(E21C41/16 OR E21F15/00 OR E21F17/00) AND TIABC=((OR COAL) AND (((OR WATER) (2N) PRESERV*) OR OR WATER-PRESERVED OR OR OR WATER-PRESERVED OR AQUIFER-PROTECTIVE OR AQUIFER-PROTECTIVE OR (AQUIFER (2N) PROTECT*)) PROTECT*))))

1.1.1.2

E21C41/18, E21C41/28, E21C47/02 PDY=[2016 TO 2025] AND IPCM-LOW=(E21C41/18 OR E21C41/28 OR E21C47/02)

1.1.1.3

B01D21/01, C02F1/48, C02F1/52, C02F9/00 (OR COAL) (2N) (OR PDY=[2016 TO 2025] AND (IPCM-LOW=(B01D21/01 OR OR EXCAVAT* OR OR C02F1/48 OR C02F1/52 OR C02F9/00) AND MINE OR MINING OR TIABC=((OR COAL) R r PRODUCTING)

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1. 1. 1. 5

E21C41/16
E21B43/24, E21F15/00

(OR COAL) (S) (OR GAS OR GASIFICATION OR GASIFYING OR GASIFIED) OR COAL

PDY=[2016 TO 2025] AND (IPCM-LOW=E21C41/16 AND TIABC=((OR COAL) (S) (OR GAS OR GASIFICATION OR GASIFYING OR GASIFIED))) PDY=[2016 TO 2025] AND (IPCM-LOW=(E21B43/24 OR E21F15/00) AND TIABC=(OR COAL))

1. 1. 1. 6

E21B44/00, E21F17/18

OR COAL

PDY=[2016 TO 2025] AND (IPCM-LOW=(E21B21/08 OR E21B44/00 OR E21F17/18) AND TIABC=(OR COAL))

1. 1. 1. 7

B03, B07B, B07C5/00

(OR COAL) AND (OR OR OR CONTROL* OR INTELLIGENT*)

PDY=[2016 TO 2025] AND (IPCM-LOW=(B03 OR B07B OR B07C5/00) AND TIABC=((OR COAL) AND (OR OR OR CONTROL* OR INTELLIGENT*)))

B03B13/00, B07B13/04

OR COAL

PDY=[2016 TO 2025] AND (IPCM-LOW=(B03B13/00 OR B07B13/04) AND TIABC=(OR COAL))

1. 1. 1. 8

F24D3/18, F24D12/02, F24H4/00, F25B30/06

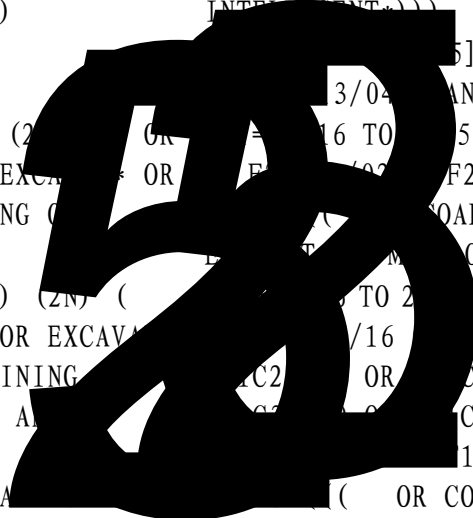
(OR COAL) (2N) (OR OR OR EXCAVAT* OR MINE OR MINING OR PRODUCTING)

PDY=[2016 TO 2025] AND (IPCM-LOW=(F24D3/18 OR F24H4/00 OR F25B30/06) AND TIABC=((OR COAL) (2N) (OR OR OR EXCAVAT* OR MINE OR MINING OR PRODUCTING)))

1. 1. 1. 9

E21B43/12, E21B43/16, E21B43/25, E21C25/00, E21C27/00, E21C29/00, E21C31/00, E21C35/00, E21C37/00, E21C39/00, E21F1/00, E21F13/00, E21F17/00

((OR COAL) (2N) (OR OR OR EXCAVAT* OR MINE OR MINING OR PRODUCTING)) AND (IPCM-LOW=(E21B43/12 OR E21B43/16 OR E21B43/25 OR E21C25/00 OR E21C27/00 OR E21C29/00 OR E21C31/00 OR E21C35/00 OR E21C37/00 OR E21C39/00 OR E21F1/00 OR E21F13/00 OR E21F17/00) AND TIABC=((OR COAL) (2N) (OR OR OR EXCAVAT* OR MINE OR MINING OR PRODUCTING)))



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|------------|---|--|---|
| | | POLYGENERATION | OR OR OR OR COGENERATION OR POLYGENERATION)) |
| 1. 1. 2. 4 | H02J3/38 | OR OR OR OR OR OR OR SAV* OR ENERGY OR ECONOMIZ* OR RETRENCH* OR RECYCL* OR CLEAN* OR SUBSTITUT* OR ALTERNATIVE OR GREEN OR ((LOW* OR REDUC*) (2N) CARBON) | PDY=[2016 TO 2025] AND (IPCM-LOW=H02J3/38 AND TIABC=(OR OR OR OR OR OR OR SAV* OR ENERGY OR ECONOMIZ* OR RETRENCH* OR RECYCL* OR CLEAN* OR SUBSTITUT* OR ALTERNATIVE OR GREEN OR ((LOW* OR REDUC*) (2N) CARBON))) |
| 1. 1. 3 | | | |
| 1. 1. 3. 1 | F23K1/00 | OR OR OR OR OR OR OR SAV* OR ENERGY OR ECONOMIZ* OR RETRENCH* OR RECYCL* OR CLEAN* OR SUBSTITUT* OR ALTERNATIVE OR GREEN OR ((LOW* OR REDUC*) (2N) CARBON) | PDY=[2016 TO 2025] AND (IPCM-LOW=F23K1/00 AND TIABC=(OR OR OR OR OR OR OR SAV* OR ENERGY OR ECONOMIZ* OR RETRENCH* OR RECYCL* OR CLEAN* OR SUBSTITUT* OR ALTERNATIVE OR GREEN OR ((LOW* OR REDUC*) (2N) CARBON))) |
| | C10J3/00, C10L5/02, C10L9/00, C10L10/00 | OR COAL | PDY=[2016 TO 2025] AND (IPCM-LOW=(C10J3/00 OR C10L5/02 OR C10L9/00 OR C10L10/00) AND TIABC=(OR COAL)) |
| 1. 1. 3. 2 | F02B45/02 | | PDY=[2016 TO 2025] AND IPCM-LOW=F02B45/02 |

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| | F23D14/26, F23D14/32, F23D14/58, F23D14/66, F23D23/00, F23L7/00, F23L15/00, F23R3/28, F24V30/00, F27B1/26, F27B1/28, F27B3/28, F27B5/18, F27B7/42, F27B9/40, F27B13/14, F27B14/20, F27D19/00, F27D21/00 | OR COAL | PDY=[2016 TO 2025] AND (IPCM-LOW=(F23D14/26 OR F23D14/32 OR F23D14/58 OR F23D14/66 OR F23D23/00 OR F23L7/00 OR F23L15/00 OR F23R3/28 OR F24V30/00 OR F27B1/26 OR F27B1/28 OR F27B3/28 OR F27B5/18 OR F27B7/42 OR F27B9/40 OR F27B13/14 OR F27B14/20 OR F27D19/00 OR F27D21/00) AND TIABC=(OR COAL)) |
| | F23B10/00, F23B70/00, F23C6/00, F23K3/00, F23N, F23R | NOT: OR OR OR OR OR OR OR STRAW OR BIOMASS OR (SOLID (1W) WASTE) OR GARBAGE OR REFUSE OR RUBBISH | PDY=[2016 TO 2025] AND (IPCM-LOW=(F23B10/00 OR F23B70/00 OR F23C6/00 OR F23K3/00 OR F23N OR F23R) AND TIABC=(NOT: OR OR OR OR OR OR OR STRAW OR BIOMASS OR (SOLID (1W) WASTE) OR GARBAGE OR REFUSE OR RUBBISH)) |
| 1. 1. 3. 3 | C10B53/04 | | PDY=[2016 TO 2025] AND IPCM-LOW=C10B53/04 |
| | C10B21/00, C10B39/00, C10B41/00, C10B47/00, C10B49/00, C10B55/00, C10B57/00 | (OR COAL) AND (OR OR OR OR OR OR OR SAV* OR ENERGY OR ECONOMIZ* OR RETRENCH* OR RECYCL* OR CLEAN* OR SUBSTITUT* OR ALTERNATIVE OR GREEN OR ((LOW* OR REDUC*) (2N) CARBON)) | PDY=[2016 TO 2025] AND (IPCM-LOW=(C10B21/00 OR C10B39/00 OR C10B41/00 OR C10B47/00 OR C10B49/00 OR C10B55/00 OR C10B57/00) AND TIABC=((OR COAL) AND (OR OR OR OR OR OR OR SAV* OR ENERGY OR ECONOMIZ* OR RETRENCH* OR RECYCL* OR CLEAN* OR SUBSTITUT* OR ALTERNATIVE OR GREEN OR ((LOW* OR REDUC*) (2N) CARBON)))) |

| | | | |
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| 1. 1. 3. 4 | B01D53/00, F23J15/02 | OR COAL | PDY=[2016 TO 2025] AND (IPCM-LOW=(B01D53/00 OR F23J15/02) AND TIABC=(OR COAL)) |
| | C21C5/38 | OR OR OR OR OR OR OR SAV* OR ENERGY OR ECONOMIZ* OR RETRENCH* OR RECYCL* OR CLEAN* OR SUBSTITUT* OR ALTERNATIVE OR GREEN OR ((LOW* OR REDUC*) (2N) CARBON) | PDY=[2016 TO 2025] AND (IPCM-LOW=C21C5/38 AND TIABC=(OR OR OR OR OR OR OR OR SAV* OR ENERGY OR ECONOMIZ* OR RETRENCH* OR RECYCL* OR CLEAN* OR SUBSTITUT* OR ALTERNATIVE OR GREEN OR ((LOW* OR REDUC*) (2N) CARBON))) |
| 1. 1. 3. 5 | C21B13/00, C22B1/16, C22B15/02, C22B15/04, C22B15/06, F23C9/00, F23C99/00, F25B27/02, F25B29/00 | OR OR OR OR OR OR OR SAV* OR ENERGY OR ECONOMIZ* OR RETRENCH* OR RECYCL* OR CLEAN* OR SUBSTITUT* OR ALTERNATIVE OR GREEN OR ((LOW* OR REDUC*) (2N) CARBON) | PDY=[2016 TO 2025] AND (IPCM-LOW=(C21B13/00 OR C22B1/16 OR C22B15/02 OR C22B15/04 OR C22B15/06 OR F23C9/00 OR F23C99/00 OR F25B27/02 OR F25B29/00) AND TIABC=(OR OR OR OR OR OR OR OR SAV* OR ENERGY OR ECONOMIZ* OR RETRENCH* OR RECYCL* OR CLEAN* OR SUBSTITUT* OR ALTERNATIVE OR GREEN OR ((LOW* OR REDUC*) (2N) CARBON))) |
| 1. 1. 4 (,) | | | |
| 1. 1. 4. 1 | C10L1/00 | (OR COAL) AND (OR OR OR OR OR OR OR SAV* OR ENERGY OR ECONOMIZ* OR RETRENCH* OR RECYCL* OR CLEAN* OR | PDY=[2016 TO 2025] AND (IPCM-LOW=C10L1/00 AND TIABC=((OR COAL) AND (OR OR OR OR OR OR OR SAV* OR ENERGY OR ECONOMIZ* OR RETRENCH* OR RECYCL* OR CLEAN* OR SUBSTITUT* OR ALTERNATIVE OR GREEN OR ((DECREAS* OR LOW* |

| | | | | |
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| | | SUBSTITUT* OR ALTERNATIVE OR GREEN OR (DECREAS* OR LOW* OR REDUC*) (2N) CARBON)) | OR REDUC*) (2N) CARBON))))) | |
| 1. 1. 4. 2 , ,) | (包) | C07C2/06, C07C2/40, C0 7C2/44, C07C2/54, C07C 2/74, C07C11/02, C07C1 1/12, C07C11/21, C07C1 5/00, C07C25/00, C07C3 1/04, C10G1/00, C10G45 /00, C10G47/00, C10G49 /00, C10G65/00, C10G67 /00, C10G69/00 | OR COAL | PDY=[2016 TO 2025] AND (IPCM-LOW=(C07C2/06 OR C07C2/40 OR C07C2/44 OR C07C2/54 OR C07C2/74 OR C07C11/02 OR C07C11/12 OR C07C11/21 OR C07C15/00 OR C07C25/00 OR C07C31/04 OR C10G1/00 OR C10G45/00 OR C10G47/00 OR C10G49/00 OR C10G65/00 OR C10G67/00 OR C10G69/00) AND TIABC=(OR COAL)) |
| | | C07C | (OR COAL) AND (OR OR OR OR OR OR OR SAV* OR ENERGY OR ECONOMIZ* OR RETRENCH* OR RECYCL* OR CLEAN* OR SUBSTITUT* OR ALTERNATIVE OR GREEN OR (DECREAS* OR LOW* OR REDUC*) (2N) CARBON)) | PDY=[2016 TO 2025] AND (IPCM-LOW=C07C AND TIABC=((OR COAL) AND (OR OR OR OR OR OR OR SAV* OR ENERGY OR ECONOMIZ* OR RETRENCH* OR RECYCL* OR CLEAN* OR SUBSTITUT* OR ALTERNATIVE OR GREEN OR ((DECREAS* OR LOW* OR REDUC*) (2N) CARBON))))) |

| | | | |
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| | | CRUDE) OR OIL OR OR (and (or or))) AND ("CO2" OR OR (CARBON DIOXIDE)) | OIL OR (SHALE (2N) OIL) OR (and (or or))) AND ("CO2" OR OR (CARBON DIOXIDE))) |
| | E21B43/22 | "CO2" OR OR (CARBON DIOXIDE) | PDY=[2016 TO 2025] AND (IPCM-LOW=E21B43/22 AND TIABC=("CO2" OR OR (CARBON DIOXIDE))) |
| 1. 2. 1. 3 | E21F7/00 | OR OR OR OR OR PETROLEUM OR PETRO CRUDE OR OIL OR (SHALE (1N) OIL) | PDY=[2016 TO 2025] AND (IPCM-LOW=E21F7/00 AND TIABC=(OR OR OR OR OR PETROLEUM OR PETRO CRUDE OR OIL OR (SHALE (2N) OIL))) |
| 1. 2. 1. 4 | E21B43/00 | OR OR CONTROL* | PDY=[2016 TO 2025] AND (IPC-LOW=E21B43/00 AND TIABC=(OR OR OR OR OR PETROLEUM OR PETRO CRUDE OR OIL OR (SHALE (2N) OIL)) AND TIAB=(OR OR OR DETECT* OR CONTROL*)) |
| | E21B43/00 | OR OR OR OR OR PETROLEUM OR PETRO CRUDE OR OIL OR (SHALE (1N) OIL) | |

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|------------|---|--|---|
| 1. 2. 1. 5 | E21B | (OR OR OR OR OR PETROLEUM OR PETRO CRUDE OR OIL OR (SHALE (1N) OIL)) (3N) (OR OR EXPLOIT* OR MINING OR DRIV* OR DISPLAC*) AND (OR OR OR OR OR OR OR SAV* OR ENERGY OR ECONOMIZ* OR RETRENCH* OR RECYCL* OR CLEAN* OR SUBSTITUT* OR ALTERNATIVE OR GREEN OR ((LOW* OR REDUC*) (2N) CARBON)) | PDY=[2016 TO 2025] AND (IPCM-LOW=E21B AND TIABC=((OR OR OR OR OR PETROLEUM OR PETRO OR CRUDE OR OIL OR (SHALE (2N) OIL)) AND (OR OR EXPLOIT* OR MINING OR DRIV* OR DISPLAC*) AND (OR OR OR OR OR OR OR SAV* OR ENERGY OR ECONOMIZ* OR RETRENCH* OR RECYCL* OR CLEAN* OR SUBSTITUT* OR ALTERNATIVE OR GREEN OR ((LOW* OR REDUC*) (2N) CARBON)))) |
| 1. 2. 2 | | | |
| 1. 2. 2. 1 | C07C7/163 C10G1/06, C10G45/00, C 10G47/00, C10G49/00, C 10G65/00, C10G67/00, C 10G69/00 | OR PETROLEUM OR OR CRUDE OR OIL | PDY=[2016 TO 2025] AND (IPCM-LOW=C07C7/163 AND TIABC=(OR PETROLEUM OR OR CRUDE OR OIL)) PDY=[2016 TO 2025] AND IPCM-LOW=(C10G1/06 OR C10G45/00 OR C10G47/00 OR C10G49/00 OR C10G65/00 OR C10G67/00 OR C10G69/00) |
| 1. 2. 2. 2 | C01B3/00 (NOT: C01B3/0 4) | OR PETROLEUM OR OR CRUDE OR OIL | PDY=[2016 TO 2025] AND ((IPCM-LOW=C01B3/00 NOT IPCM-LOW=C01B3/04) AND TIABC=(OR PETROLEUM OR OR CRUDE OR OIL)) |

1. 2. 2. 3

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C10G11/05, C10G11/14

PDY=[2016 TO 2025] AND IPCM-LOW=(C10G11/05
OR C10G11/14)

C07C7/04, C07C11/02, F
25J3/02

OR PETROLEUM OR
OR CRUDE OR OIL

PDY=[2016 TO 2025] AND (IPCM-LOW=(C07C7/04
OR C07C11/02 OR F25J3/02) AND TIABC=(OR
PETROLEUM OR OR CRUDE OR OIL))

C10

OR OR OR
OR OR OR
OR SAV* OR ENERGY OR
ECONOMIZ* OR RETRENCH*
OR RECYCL* OR CLEAN* OR
SUBSTITUT* OR
ALTERNATIVE OR GREEN OR
(LOW* OR REDUC*) (2N)
CARBON)

Y=[20 TO 2025] AND (IPCM-LOW=C10 AND
TIABC=(OR OR OR OR
OR OR OR SAV* OR ENERGY OR
ECONOMIZ* OR RETRENCH* OR RECYCL* OR CLEAN*
OR

| | | | |
|------------|---|--|--|
| | | CLEAN* OR SUBSTITUT* OR ALTERNATIVE OR GREEN OR ((LOW* OR REDUC*) (2N) CARBON)) | |
| 1. 2. 3. 2 | C01B3/32, C07C2/00, C07C7/00, C07C11/02, C07C11/24, C07C29/151 | OR OR OR (NATURAL (1W) GAS) OR (SHALE (1W) GAS) | PDY=[2016 TO 2025] AND (IPCM-LOW=(C01B3/32 OR C07C2/00 OR C07C7/00 OR C07C11/0 OR C07C11/24 OR C07C29/151) AND TIABC=(OR OR OR (NATURAL (1W) GAS) OR (SHALE (1W) GAS))) |
| 1. 2. 3. 3 | C07C31/04 | OR OR OR (NATURAL (1W) GAS) OR (SHALE (1W) GAS) | PDY=[2016 TO 2025] AND (IPCM-LOW=C07C31/04 AND TIABC=(OR OR OR (NATURAL (1W) GAS) OR (SHALE (1W) GAS))) |
| | C10L3/06 | OR OR OR OR OR METHANOL OR ACTIVAT* OR GREEN OR ((LOW* OR REDUC*) (2N) CARBON) | PDY=[2016 TO 2025] AND (IPCM-LOW=C10L3/06 AND TIABC=(OR OR OR OR OR METHANOL OR ACTIVAT* OR GREEN OR ((LOW* OR REDUC*) (2N) CARBON))) |
| 2 | | | |
| 2. 1 | | | |
| 2. 1. 1 | | | |
| 2. 1. 1. 1 | H02K | OR OR (WATER (3W) POWER) OR (WATER (3W) WHEEL*) | PDY=[2016 TO 2025] AND (IPCM-LOW=(H02K) AND TIABC=(OR OR (WATER (3W) POWER) OR (WATER (3W) WHEEL*))) |
| | F03B1/00, F03B3/00, F03B13/00 (NOT: F03B13/02 OR F03B13/04 OR F03B13/12), F03B15/00, H02P101/10 | | PDY=[2016 TO 2025] AND (IPCM-LOW=(F03B1/00 OR F03B3/00 OR (F03B13/00 NOT (F03B13/02 OR F03B13/04 OR F03B13/12)) OR F03B15/00 OR H02P101/10)) |

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| 2. 1. 1. 2 | E02B9/00 (NOT: E02B9/08) | | PDY=[2016 TO 2025] AND (IPCM-LOW=(E02B9/00 NOT E02B9/08)) |
| 2. 1. 2 | F03B7/00, F03B17/02 (NOT: F03B17/04), F03B17/06 | | PDY=[2016 TO 2025] AND (IPCM-LOW=(F03B7/00 OR (F03B17/02 NOT F03B17/04) OR F03B17/06)) |
| 2. 2 | | | |
| 2. 2. 1 | F02C1/05, F24C9/00, F24D101/40, F24J2/00, F24S | | PDY=[2016 TO 2025] AND (IPCM-LOW=(F02C1/05 OR F24C9/00 OR F24D101/40 OR F24J2/00 OR F24S)) |
| 2. 2. 2 | | | |
| 2. 2. 2. 1 | H01G9/20, H01M14/00 | OR OR OR SOLAR OR PHOTOVOLTAIC OR DYE-SENSITIZED | PDY=[2016 TO 2025] AND (IPCM-LOW=(H01G9/20 OR H01M14/00) AND TIABC=(OR OR OR SOLAR OR PHOTOVOLTAIC OR DYE-SENSITIZED)) |
| 2. 2. 2. 2 | H01L51/42, H10K30/00, H10K39/10 | | PDY=[2016 TO 2025] AND IPCM-LOW=(H01L51/42 OR H10K30/00 OR H10K39/10) |
| 2. 2. 2. 3 | H01L31/0248 | | PDY=[2016 TO 2025] AND IPCM-LOW=(H01L31/0248) |
| 2. 2. 2. 4 | E04D13/18, H01L31/02, H01L31/04 | | PDY=[2016 TO 2025] AND IPCM-LOW=(E04D13/18 OR H01L31/02 OR H01L31/04) |
| 2. 2. 2. 5 | H02S | | PDY=[2016 TO 2025] AND (IPCM-LOW=(H02S)) |
| 2. 2. 3 | F03G6/00 | | PDY=[2016 TO 2025] AND (IPCM-LOW=(F03G6/00)) |
| 2. 3 | | | |
| 2. 3. 1 | F03D, H02P101/15 | | PDY=[2016 TO 2025] AND (IPCM-LOW=(F03D OR H02P101/15)) |
| 2. 3. 2 | F04B17/02 | | PDY=[2016 TO 2025] AND (IPCM-LOW=(F04B17/02)) |

| | | | |
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| 2.4 | | | |
| 2.4.1 | | | |
| 2.4.1.1 | F03B13/12 | | PDY=[2016 TO 2025] AND (IPCM-LOW=(F03B13/12)) |
| 2.4.1.2 | E02B9/08 | | PDY=[2016 TO 2025] AND (IPCM-LOW=(E02B9/08)) |
| 2.4.2 | (OTEC) F03G7/05 | | PDY=[2016 TO 2025] AND (IPCM-LOW=(F03G7/05)) |
| 2.5 | | | |
| 2.5.1 | F24J3/08, F24T | | PDY=[2016 TO 2025] AND (IPCM-LOW=(F24J3/08 OR F24T)) |
| 2.5.2 | F03G4/00 | | PDY=[2016 TO 2025] AND (IPCM-LOW=(F03G4/00)) |
| 2.6 | | | |
| 2.6.1 | B01J27/24, C12P3/00, C25B1/00, C25B9/00, C25B15/00 | OR HYDROGEN OR "H2" | PDY=[2016 TO 2025] AND (IPCM-LOW=(B01J27/24 OR C12P3/00 OR C25B1/00 OR C25B9/00 OR C25B15/00) AND TIABC=(OR HYDROGEN OR "H2")) |
| | C01B3/00 | | PDY=[2016 TO 2025] AND (IPCM-LOW=(C01B3/00)) |
| 2.6.2 | | | |
| 2.6.2.1 | F17C | OR HYDROGEN OR "H2" | PDY=[2016 TO 2025] AND (IPCM-LOW=(F17C) AND TIABC=(OR HYDROGEN OR "H2")) |
| 2.6.2.2 | B22F, B82Y, C01B6/00, C22C | OR OR ((1W)) OR HYDROGEN (3N) (STORAGE OR ABSORB*) | PDY=[2016 TO 2025] AND (IPCM-LOW=(B22F OR B82Y OR C01B6/00 OR C22C) AND TIABC=(OR OR ((1W)) OR HYDROGEN (3N) (STORAGE OR ABSORB*))) |
| 2.6.2.3 | F25B17/12 | | PDY=[2016 TO 2025] AND |

| | | | |
|-------------|--|---|--|
| | B01J20/00, C01B31/00, C01B32/00 | OR (1W)) OR HYDROGEN (3N) (STORAGE OR ABSORB*) | (IPCM-LOW=(F25B17/12)) PDY=[2016 TO 2025] AND (IPCM-LOW=(B01J20/00 OR C01B31/00 OR C01B32/00) AND TIABC=(OR ((1W)) OR HYDROGEN (3N) (STORAGE OR ABSORB*))) |
| 2. 6. 2. 4 | C08G18/00, C08G59/00, C08G77/00, C08K3/00, C 08K5/00, C08L63/00, C0 8L83/00, C08L101/00 | OR (1W)) OR HYDROGEN (3N) (STORAGE OR ABSORB*) | PDY=[2016 TO 2025] AND (IPCM-LOW=(C08G18/00 OR C08G59/00 OR C08G77/00 OR C08K3/00 OR C08K5/00 OR C08L63/00 OR C08L83/00 OR C08L101/00) AND TIABC=(OR ((1W)) OR HYDROGEN (3N) (STORAGE OR ABSORB*))) |
| 2. 6. 3 | H01M4/86, H01M8/00, H0 1M12/00 | OR OR HYDROGEN OR PEMFC OR (PROTON EXCHANGE MEMBRANE) OR "H2" | PDY=[2016 TO 2025] AND (IPCM-LOW=(H01M4/86 OR H01M8/00 OR H01M12/00) AND TIABC=(OR OR HYDROGEN OR PEMFC OR (PROTON EXCHANGE MEMBRANE) OR "H2")) |
| 2. 6. 4 | F25J1/02 | | PDY=[2016 TO 2025] AND (IPCM-LOW=(F25J1/02)) |
| 2. 7 | | | |
| 2. 7. 1 | C10G1/00 (NOT: C10G1/1 0), C10L1/02, C10L3/00 (NOT: C10L3/02, C10L3/ 04, C10L3/06, C10L3/10 , C10L3/12), C10L5/40, C12P7/06 | | PDY=[2016 TO 2025] AND (IPCM-LOW=(C10G1/00 OR C10L1/02 OR C10L3/00 OR C10L5/40 OR C12P7/06) NOT IPCM-LOW=(C10G1/10 OR C10L3/02 OR C10L3/04 OR C10L3/06 OR C10L3/10 OR C10L3/12)) |
| 2. 7. 2 | C02F11/04, C12M1/107 | | PDY=[2016 TO 2025] AND (IPCM-LOW=(C02F11/04 OR C12M1/107)) |
| 2. 7. 3 | | | |

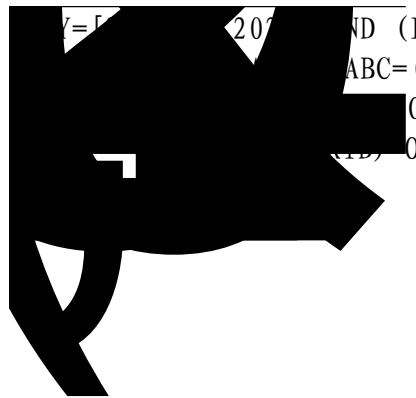
| | | | |
|-------------|---|--|---|
| 2. 8 | | | |
| 2. 8. 1 | G21B | | PDY=[2016 TO 2025] AND (IPCM-LOW=(G21B)) |
| 2. 8. 2 | G21C | | PDY=[2016 TO 2025] AND (IPCM-LOW=(G21C)) |
| 2. 8. 3 | G21H, G21J3/00 | | PDY=[2016 TO 2025] AND (IPCM-LOW=(G21H OR G21J3/00)) |
| 2. 8. 4 | G21D | | PDY=[2016 TO 2025] AND (IPCM-LOW=(G21D)) |
| 3 | | | |
| 3. 1 | | | |
| 3. 1. 1 | F02C6/16, F04B41/02 | | PDY=[2016 TO 2025] AND (IPCM-LOW=(F02C6/16 OR F04B41/02)) |
| 3. 1. 2 | B60K6/10, B60K6/12, B60K6/30, B60L50/30, H02J1/16, F03D9/12, F03G7/08, F16H33/02, H02J3/28, H02J3/30, H02J15/00, H02K7/02 | | PDY=[2016 TO 2025] AND (IPCM-LOW=(B60K6/10 OR B60K6/12 OR B60K6/30 OR B60L50/30 OR H02J1/16 OR F03D9/12 OR F03G7/08 OR F16H33/02 OR H02J3/28 OR H02J3/30 OR H02J15/00 OR H02K7/02)) |
| 3. 2 | | | |
| 3. 2. 1 | F24H7/00, F28D20/00 | | PDY=[2016 TO 2025] AND (IPCM-LOW=(F24H7/00 OR F28D20/00)) |
| 3. 2. 2 | C09K5/00, F22B1/06 | | PDY=[2016 TO 2025] AND (IPCM-LOW=(C09K5/00 OR F22B1/06)) |
| 3. 3 | | | |
| 3. 3. 1 | H01M2/00, H01M4/00, H01M10/00, H01M50/00 | | PDY=[2016 TO 2025] AND (IPCM-LOW=(H01M2/00 OR H01M4/00 OR H01M10/00 OR H01M50/00)) |
| 3. 3. 2 | H01G11/00 | | PDY=[2016 TO 2025] AND (IPCM-LOW=(H01G11/00)) |

| | | | |
|-------------|--|--|--|
| 3. 3. 3 | B60K1/04, B60K6/28, B60L50/40, B60L50/50, B60L58/00, B60R16/033, B60R16/04, B60W10/26 | | PDY=[2016 TO 2025] AND (IPCM-LOW=(B60K1/04 OR B60K6/28 OR B60L50/40 OR B60L50/50 OR B60L58/00 OR B60R16/033 OR B60R16/04 OR B60W10/26)) |
| 4 | | | |
| 4. 1 | | | |
| 4. 1. 1 | F02D17/00 | | PDY=[2016 TO 2025] AND IPCM-LOW=F02D17/00 |
| 4. 1. 2 | F02B43/00 | | PDY=[2016 TO 2025] AND IPCM-LOW=F02B43/00 |
| 4. 1. 3 | F02C9/32, F02C9/36, F02C9/38 | | PDY=[2016 TO 2025] AND IPCM-LOW=(F02C9/32 OR F02C9/36 OR F02C9/38) |
| 4. 1. 4 | F02D43/00 | | PDY=[2016 TO 2025] AND IPCM-LOW=F02D43/00 |
| 4. 1. 5 | F02M33/02 | | PDY=[2016 TO 2025] AND IPCM-LOW=F02M33/02 |
| 4. 1. 6 | F02D41/00 | | PDY=[2016 TO 2025] AND IPCM-LOW=F02D41/00 |
| 4. 2 | | | |
| 4. 2. 1 | F02B69/04, F02C3/22, F02C3/28, F02M21/00, F23D14/02, F23D14/20, F23D14/28, F23D14/32, F23D14/34, F23D14/60, F23Q2/16, F23Q7/10, F23R3/00, F24C3/00 | | PDY=[2016 TO 2025] AND IPCM-LOW=(F02B69/04 OR F02C3/22 OR F02C3/28 OR F02M21/00 OR F23D14/02 OR F23D14/20 OR F23D14/28 OR F23D14/32 OR F23D14/34 OR F23D14/60 OR F23Q2/16 OR F23Q7/10 OR F23R3/00 OR F24C3/00) |
| 4. 2. 2 | F02B1/00, F02B11/00, F02B13/02, F02B13/06 | | PDY=[2016 TO 2025] AND IPCM-LOW=(F02B1/00 OR F02B11/00 OR F02B13/02 OR F02B13/06) |
| 4. 2. 3 | F02B3/00, F02B7/00, F02B9/00, F02B23/10, F02B51/00, F02B57/02, F02D19/00, F02D21/00, F02M13/08, F23D14/22, F23 | | PDY=[2016 TO 2025] AND IPCM-LOW=(F02B3/00 OR F02B7/00 OR F02B9/00 OR F02B23/10 OR F02B51/00 OR F02B57/02 OR F02D19/00 OR F02D21/00 OR F02M13/08 OR F23D14/22 OR F23D17/00 OR F23G5/12 OR F23N5/18 OR |

| | | | |
|-------------|--|--|--|
| | D17/00, F23G5/12, F23N5/18, F23Q1/04 | | F23Q1/04) |
| 4. 2. 4 | F23D14/66 | | PDY=[2016 TO 2025] AND IPCM-LOW=F23D14/66 |
| 4. 3 | | | |
| 4. 3. 1 | F21K9/00, F21Y115/00, H05B33/00, H05B45/00 | | PDY=[2016 TO 2025] AND IPCM-LOW=(F21K9/00 OR F21Y115/00 OR H05B33/00 OR H05B45/00) |
| | F21S2/00, F21S4/00, F21S6/00, F21S8/00, F21S9/00, F21S10/00, F21S11/00, F21S13/00, F21S15/00, F21S19/00, F21V, F21Y, H01L33/00, H05B35/00, H05B47/00 | ELECTRO\$LUMINESCE* OR LED\$ OR OLED\$ OR EL\$ OR (LIGHT (1N) EMITTING (1N) DIODE) OR OR | PDY=[2016 TO 2025] AND (IPCM-LOW=(F21S2/00 OR F21S4/00 OR F21S6/00 OR F21S8/00 OR F21S9/00 OR F21S10/00 OR F21S11/00 OR F21S13/00 OR F21S15/00 OR F21S19/00 OR F21V OR F21Y OR H01L33/00 OR H05B35/00 OR H05B47/00) AND TIABC=(ELECTRO\$LUMINESCE* OR LED\$ OR OLED\$ OR EL\$ OR (LIGHT (2N) EMITTING (2N) DIODE) OR OR)) |
| 4. 3. 2 | F15B9/03, F15B9/17, F15B21/08, F16D27/00, F16D28/00, F16D48/06, H04W52/02 | | PDY=[2016 TO 2025] AND IPCM-LOW=(F15B9/03 OR F15B9/17 OR F15B21/08 OR F16D27/00 OR F16D28/00 OR F16D48/06 OR H04W52/02) |
| 4. 3. 3 | G01R31/00 (NOT G01R31/01, G01R31/24, G01R31/26, G01R31/34, G01R31/44), G05B19/02, G06Q50/06, H02J3/00, H02J4/00, H02J5/00, H02J13/00 | OR (POWER GRID) | PDY=[2016 TO 2025] AND (IPCM-LOW=((G01R31/00 NOT G01R31/01 NOT G01R31/24 NOT G01R31/26 NOT G01R31/34 NOT G01R31/44) OR G05B19/02 OR G06Q50/06 OR H02J3/00 OR H02J4/00 OR H02J5/00 OR H02J13/00) AND TIABC=(OR (POWER GRID))) |

H02B, H02J, H02M

OR OR
 OR OR OR
 OR OR OR
 (SMART GRID) OR (POWER
 GRID) OR SAV* OR ENERGY
 OR ECONOMIZ* OR
 RETRENCH* OR RECYCL* OR
 CLEAN* OR SUBSTITUT* OR
 ALTERNATIVE OR GREEN OR
 ((LOW* OR REDUC*) (2N)
 CARBON)



OR
 0)
 SCREEN

EB2(C*



| | | | |
|-------------|--|--|--|
| | | POWER) OR NETWORK* | |
| 4. 4 | | | |
| 4. 4. 1 | B05B1/02, B05B1/26, B05B1/28, B05B1/30, B05B1/34, B05B3/00, E02B11/00, E02B13/00 | (WATER (1W) SUPPLY) OR (RECYCLE* (1W) WATER) OR (RECLAIMED (1W) WATER) OR (WATER (1W) SAVING) OR OR ((2W)) OR ((2W)) OR ((2W)) OR ((2W)) | PDY=[2016 TO 2025] AND (IPCM-LOW=(B05B1/02 OR B05B1/26 OR B05B1/28 OR B05B1/30 OR B05B1/34 OR B05B3/00 OR E02B11/00 OR E02B13/00) AND TIABC=((WATER (2N) SUPPLY) OR (RECYCLE* (2N) WATER) OR (RECLAIMED (2N) WATER) OR (WATER (2N) SAVING) OR OR ((2N)) OR ((2N)) OR ((2N)) OR ((2N)))) |
| 4. 4. 2 | B05B1/02, B05B1/14, B05B1/26, B05B1/28, B05B1/30, B05B1/34, E03D1/12, E03D1/14 | (WATER (1N) SUPPLY) OR (RECYCLE* (1N) WATER) OR (RECLAIMED (1N) WATER) OR (WATER (1N) SAVING) OR OR ((2N)) OR ((2N)) OR ((2N)) OR ((2N)) | PDY=[2016 TO 2025] AND (IPCM-LOW=(B05B1/02 OR B05B1/14 OR B05B1/26 OR B05B1/28 OR B05B1/30 OR B05B1/34 OR E03D1/12 OR E03D1/14) AND TIABC=((WATER (2N) SUPPLY) OR (RECYCLE* (2N) WATER) OR (RECLAIMED (2N) WATER) OR (WATER (2N) SAVING) OR OR ((2N)) OR ((2N)) OR ((2N)) OR ((2N)))) |
| 4. 4. 3 , | F16K21/02, F16K21/04, F16K23/00, F16K31/18, F16K37/00 | (WATER (1N) SAV*) OR THROTTLE OR RECYCLE* OR RECLAIM OR REUSE OR (WASTE (1N) WATER) OR (LIQUID (1N) WASTE) OR SEWAGE OR SEWERAGE OR SLOP OR SULLAGE) OR OR OR OR | PDY=[2016 TO 2025] AND (IPCM-LOW=(F16K21/02 OR F16K21/04 OR F16K23/00 OR F16K31/18 OR F16K37/00) AND TIABC=((WATER (2N) SAV*) OR THROTTLE OR RECYCLE* OR RECLAIM OR REUSE OR (WASTE (2N) WATER) OR (LIQUID (2N) WASTE) OR SEWAGE OR SEWERAGE OR SLOP OR SULLAGE) OR OR OR OR OR OR OR OR ((2N)) OR |

| | | | |
|---------------------|--------------------------------|---|--|
| | | OR OR OR OR ((2N)) OR OR OR | OR OR)) |
| 5 | | | |
| 5.1 CO ₂ | | | |
| 5.1.1 | | | |
| 5.1.1.1 | B01D53/02, B01J20/00 | OR OR "CO2" OR (CARBON (1W) MONOXIDE) OR (CARBON (1W) DIOXIDE) | PDY=[2016 TO 2025] AND (IPCM-LOW=(B01D53/02 OR B01J20/00) AND TIABC=(OR OR "CO2" OR (CARBON (1W) MONOXIDE) OR (CARBON (1W) DIOXIDE))) |
| 5.1.1.2 | B01D53/14 | OR OR "CO2" OR (CARBON (1W) MONOXIDE) OR (CARBON (1W) DIOXIDE) | PDY=[2016 TO 2025] AND (IPCM-LOW=(B01D53/14) AND TIABC=(OR OR "CO2" OR (CARBON (1W) MONOXIDE) OR (CARBON (1W) DIOXIDE))) |
| 5.1.1.3 / | F25J3/00 | OR OR "CO2" OR (CARBON (1W) MONOXIDE) OR (CARBON (1W) DIOXIDE) | PDY=[2016 TO 2025] AND (IPCM-LOW=(F25J3/00) AND TIABC=(OR OR "CO2" OR (CARBON (1W) MONOXIDE) OR (CARBON (1W) DIOXIDE))) |
| 5.1.1.4 | B01D53/34 (NOT: B01D53 /84) | OR OR "CO2" OR (CARBON (1W) MONOXIDE) OR (CARBON (1W) DIOXIDE) | PDY=[2016 TO 2025] AND (IPCM-LOW=(B01D53/34 NOT B01D53/84) AND TIABC=(OR OR "CO2" OR (CARBON (1W) MONOXIDE) OR (CARBON (1W) DIOXIDE))) |
| 5.1.1.5 | B01D53/84 | OR OR "CO2" OR (CARBON (1W) MONOXIDE) OR (CARBON (1W) DIOXIDE) | PDY=[2016 TO 2025] AND (IPCM-LOW=(B01D53/84) AND TIABC=(OR OR "CO2" OR (CARBON (1W) MONOXIDE) OR (CARBON (1W) DIOXIDE))) |

| | | | |
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| 5. 1. 1. 6 | B01D53/22, B01D53/24, B01D53/26, B01D53/30, B01D53/32, C12M1/00 | OR OR "CO2" OR (CARBON (1W) MONOXIDE) OR (CARBON (1W) DIOXIDE) | PDY=[2016 TO 2025] AND (IPCM-LOW=(B01D53/22 OR B01D53/24 OR B01D53/26 OR B01D53/30 OR B01D53/32 OR C12M1/00) AND TIABC=(OR OR "CO2" OR (CARBON (1W) MONOXIDE) OR (CARBON (1W) DIOXIDE))) |
| | C01B31/20, C01B31/22, C01B32/50, C01B32/55 | OR OR OR OR OR CAPTUR OR PURIFYING OR RECYCLE OR REGENERATION OR PURIFICATION | PDY=[2016 TO 2025] AND (IPCM-LOW=(C01B31/20 OR C01B31/22 OR C01B32/50 OR C01B32/55) AND TIABC=(OR OR OR OR OR CAPTUR OR PURIFYING OR RECYCLE OR REGENERATION OR PURIFICATION)) |
| 5. 1. 2 | | | |
| 5. 1. 2. 1 CO ₂ | B29, C01B32/60, C07C263/04, C07C265/00, C07C269/04, C07C271/00, C07C69/96, C07D317/34, C08, C10B53/07, C25B3/04, C25B3/26 | OR OR "CO2" OR (CARBON (1W) MONOXIDE) OR (CARBON (1W) DIOXIDE) | PDY=[2016 TO 2025] AND (IPCM-LOW=(B29 OR C01B32/60 OR C07C263/04 OR C07C265/00 OR C07C269/04 OR C07C271/00 OR C07C69/96 OR C07D317/34 OR C08 OR C10B53/07 OR C25B3/04 OR C25B3/26) AND TIABC=(OR OR "CO2" OR (CARBON (1W) MONOXIDE) OR (CARBON (1W) DIOXIDE))) |
| | C01B31/22, C01B32/55, C07C1/12, C07C273/04, C07C51/15, C07C68/04 | | PDY=[2016 TO 2025] AND (IPCM-LOW=(C01B31/22 OR C01B32/55 OR C07C1/12 OR C07C273/04 OR C07C51/15 OR C07C68/04)) |
| 5. 1. 2. 2 | B28B11/24, C04 | OR OR "CO2" OR (CARBON (1W) MONOXIDE) OR (CARBON (1W) DIOXIDE) | PDY=[2016 TO 2025] AND (IPCM-LOW=(B28B11/24 OR C04) AND TIABC=(OR OR "CO2" OR (CARBON (1W) MONOXIDE) OR (CARBON (1W) DIOXIDE))) |
| 5. 1. 2. 3 | C07C29/151, C07C29/153, C07C29/154 | OR OR "CO2" OR (CARBON (1W) MONOXIDE) OR (CARBON | PDY=[2016 TO 2025] AND (IPCM-LOW=(C07C29/151 OR C07C29/153 OR C07C29/154) AND TIABC=(OR |

| | | | |
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| | | (1W) DIOXIDE) | OR "CO2" OR (CARBON (1W) MONOXIDE) OR (CARBON (1W) DIOXIDE))) |
| 5. 1. 2. 4 | A23L, C12C, C12F3/00, C12G3/00 | OR OR "CO2" OR (CARBON (1W) MONOXIDE) OR (CARBON (1W) DIOXIDE) | PDY=[2016 TO 2025] AND (IPCM-LOW=(A23L OR C12C OR C12F3/00 OR C12G3/00) AND TIABC=(OR OR "CO2" OR (CARBON (1W) MONOXIDE) OR (CARBON (1W) DIOXIDE))) |
| 5. 1. 2. 5 | A62C13/00, A62D1/00 | OR OR "CO2" OR (CARBON (1W) MONOXIDE) OR (CARBON (1W) DIOXIDE) | PDY=[2016 TO 2025] AND (IPCM-LOW=(A62C13/00 OR A62D1/00) AND TIABC=(OR OR "CO2" OR (CARBON (1W) MONOXIDE) OR (CARBON (1W) DIOXIDE))) |
| 5. 1. 2. 6 | F25B, F25D3/12, F25J1/00 | OR OR "CO2" OR (CARBON (1W) MONOXIDE) OR (CARBON (1W) DIOXIDE) | PDY=[2016 TO 2025] AND (IPCM-LOW=(F25B OR F25D3/12 OR F25J1/00) AND TIABC=(OR OR "CO2" OR (CARBON (1W) MONOXIDE) OR (CARBON (1W) DIOXIDE))) |
| 5. 1. 3 | | | |
| 5. 1. 3. 1 | B65G5/00, E21B41/00, E21B43/00, E21F15/08, E21F17/16 | OR OR "CO2" OR (CARBON (1W) MONOXIDE) OR (CARBON (1W) DIOXIDE) | PDY=[2016 TO 2025] AND (IPCM-LOW=(B65G5/00 OR E21B41/00 OR E21B43/00 OR E21F15/08 OR E21F17/16) AND TIABC=(OR OR "CO2" OR (CARBON (1W) MONOXIDE) OR (CARBON (1W) DIOXIDE))) |
| 5. 1. 3. 2 | F17C1/00, F17C3/00 | OR OR "CO2" OR (CARBON (1W) MONOXIDE) OR (CARBON (1W) DIOXIDE) | PDY=[2016 TO 2025] AND (IPCM-LOW=(F17C1/00 OR F17C3/00) AND TIABC=(OR OR "CO2" OR (CARBON (1W) MONOXIDE) OR (CARBON (1W) DIOXIDE))) |

| | | | |
|-------------|---|--|--|
| 5. 1. 3. 3 | G01M, G01N | (OR OR "CO2" OR (CARBON (1W) MONOXIDE) OR (CARBON (1W) DIOXIDE)) AND (OR OR OR SEQUESTRATION OR SEQUESTERING) | PDY=[2016 TO 2025] AND (IPCM-LOW=(G01M OR G02N) AND TIABC=((OR OR "CO2" OR (CARBON (1W) MONOXIDE) OR (CARBON (1W) DIOXIDE)) AND (OR OR OR SEQUESTRATION OR SEQUESTERING))) |
| 5. 1. 3. 4 | C01B31/20, C01B31/22, C01B32/50, C01B32/55 | OR OR OR SEQUESTRATION OR SEQUESTERING | PDY=[2016 TO 2025] AND (IPCM-LOW=(C01B31/20 OR C01B31/22 OR C01B32/50 OR C01B32/55) AND TIABC=(OR OR OR SEQUESTRATION OR SEQUESTERING)) |
| 5. 2 | | | |
| 5. 2. 1 | B01D15/00, B01D46/00, B01D53/00, B01J20/00, G01N30/00 | OR OR "CH4" OR FIREDAMP OR METHANE | PDY=[2016 TO 2025] AND (IPCM-LOW=(B01D46/00 OR B01D53/00 OR B01J20/00 OR G02N30/00) AND TIABC=(OR OR "CH4" OR FIREDAMP OR METHANE)) |
| 5. 2. 2 | B01D15/00, B01D46/00, B01D53/00, B01J20/00, G01N30/00 | OR OR "N2O" OR (NITROUS OXIDE) | PDY=[2016 TO 2025] AND (IPCM-LOW=(B01D46/00 OR B01D53/00 OR B01J20/00 OR G02N30/00) AND TIABC=(OR OR "N2O" OR (NITROUS OXIDE))) |
| 5. 2. 3 | B01D15/00, B01D46/00, B01D53/00, B01J20/00, G01N30/00 | OR OR OR "SF6" OR HYDROFLUOROCARBONS OR PERFLUOROCARBONS OR (SULFUR HEXAFLUORIDE) OR (NITROGEN TRIFLUORIDE) OR "NF3" | PDY=[2016 TO 2025] AND (IPCM-LOW=(B01D46/00 OR B01D53/00 OR B01J20/00 OR G02N30/00) AND TIABC= OR OR OR "SF6" OR HYDROFLUOROCARBONS OR PERFLUOROCARBONS OR (SULFUR HEXAFLUORIDE) OR (NITROGEN TRIFLUORIDE) OR "NF3") |
| 6 | | | |

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|------------|--|---|---|
| 6.1 | | | |
| 6.1.1 | F01K5/00, F02B41/10, F02M26/00, F24D1/04 | | PDY=[2016 TO 2025] AND IPCM-LOW=(F01K5/00 OR F02B41/10 OR F02M26/00 OR F24D1/04) |
| 6.2 | | | |
| 6.2.1 | E03B3/02, E03B3/28, E03B3/30, E03C1/12, E03F5/10, F22D11/06, F23G7/04, F23G7/05, F24F13/22, F28B9/04, F28B9/08 | | PDY=[2016 TO 2025] AND IPCM-LOW=(E03B3/02 OR E03B3/28 OR E03B3/30 OR E03C1/12 OR E03F5/10 OR F22D11/06 OR F23G7/04 OR F23G7/05 OR F24F13/22 OR F28B9/04 OR F28B9/08) |
| 6.3 | | | |
| 6.3.1 | B29B17/00, C08J11/00, C10G1/10 | | PDY=[2016 TO 2025] AND IPCM-LOW=(B29B17/00 OR C08J11/00 OR C10G1/10) |
| | B29B7/00, B29B9/00, B29B11/00, B29B13/00, B29B15/00, B29C, B29D | (WASTE (1W) (PLASTIC* OR RESIN*)) OR (RECYCL* (5W) (RESIN* OR PLASTIC* OR POLYMER*)) OR ((OR) (2W)) OR ((2W)) | PDY=[2016 TO 2025] AND (IPCM-LOW=(B29B7/00 OR B29B9/00 OR B29B11/00 OR B29B13/00 OR B29B15/00 OR B29C OR B29D) AND TIABC=((WASTE (2N) (PLASTIC* OR RESIN*)) OR (RECYCL* (5N) (RESIN* OR PLASTIC* OR POLYMER*)) OR ((OR) (2N)) OR ((2N)))) |
| 6.3.2 | C21B3/00, C21B5/00, C21B11/00, C21B13/00, C21B15/00, C21C5/00, C21C7/00, C22B | RECYCL* OR REUSE OR RESIDUE* OR SCRAP* OR OR OR OR OR | PDY=[2016 TO 2025] AND (IPCM-LOW=(C21B3/00 OR C21B5/00 OR C21B11/00 OR C21B13/00 OR C21B15/00 OR C21C5/00 OR C21C7/00 OR C22B) AND TIABC=(RECYCL* OR REUSE OR RESIDUE* OR SCRAP* OR OR OR OR OR)) |

6. 3. 3

A23K10/26, A23K10/37,
B62D67, C05D3/04, D01C
5/00, D01F13/00, D01G1
5/72, D06B9/06, D06F43
/08, D06L1/10, D21B1/0
8, D21B1/32, D21C5/02,
D21C11/00, D21H13/08,
D21H17/01, E01C19/10,
F23G7/02, F23G7/10, F2
3G7/12, H01J9/50, H01J
9/52, H01M8/008

PDY=[2016 TO 2025] AND IPCM-LOW=(A23K10/26
OR A23K10/37 OR B62D67 OR C05D3/04 OR
D01C5/00 OR D01F13/00 OR D01G15/72 OR
D06B9/06 OR D06F43/08 OR D06L1/10 OR
D21B1/08 OR D21B1/32 OR D21C5/02 OR
D21C11/00 OR D21H13/08 OR D21H17/01 OR
E01C19/10 OR F23G7/02 OR F23G7/10 OR
F23G7/12 OR H01J9/50 OR H01J9/52 OR
H01M8/008)

6. 4

6. 4. 1

B60L7/10, B60T1/10, D2
1F5/20, F01K17/02, F01
K17/06, F01K27/02, F02
C7/10, F02G5/00, F15B2
1/14, F16D61/00, F17C9
/04, F22B1/16, F22B1/1
8, F22D1/40, F22G1/02,
F22G1/12, F22G5/06, F2
3G5/46, F24F3/147, F24
F12/00, F24H8/00, F27D
17/00, F28C1/08

PDY=[2016 TO 2025] AND IPCM-LOW=(B60L7/10 OR
B60T1/10 OR D21F5/20 OR F01K17/02 OR
F01K17/06 OR F01K27/02 OR F02C7/10 OR
F02G5/00 OR F15B21/14 OR F16D61/00 OR
F17C9/04 OR F22B1/16 OR F22B1/18 OR F22D1/40
OR F22G1/02 OR F22G1/12 OR F22G5/06 OR
F23G5/46 OR F24F3/147 OR F24F12/00 OR
F24H8/00 OR F27D17/00 OR F28C1/08)

7

7. 1

7. 1. 1

A01P1/00, B01D39/00, B
01D71/00, (B01F17/00
NOT
B01F17/50), B01J20/00
, B01J21/00, B01J23/00
, B01J25/00, B01J27/00
, B01J29/00, B01J31/00
, C01B37/00, C01B39/00
, C08F4/00, C09C1/00, C
09C3/00, C09K3/22, (C0
9K23/00 NOT
C09K23/50)

PDY=[2016 TO 2025] AND IPCM-LOW=(A01P1/00 OR
B01D39/00 OR

4, C09J105/00, C09J193
/00, C09J197/00, C09K2
3/50

7. 2. 2

| | | |
|--|--|--|
| C08B15/00, C08K7/00, C08L1/00, (C08L101/00 NOT C08L101/16), D21H | (NANO* (2N) CELLULOSE) OR CNF OR ((2N)) | PDY=[2016 TO 2025] AND (IPCM-LOW=(C08B15/00 OR C08K7/00 OR C08L1/00 OR (C08L101/00 NOT C08L101/16) OR D21H) AND TIABC=((NANO* (2N) CELLULOSE) OR CNF OR ((2N)))) |
| B32B, C08F, C08G, C08H, C08J5/18, C08L, C12P | (BIO* (1W) (PLASTIC OR POLYMER OR RESIN)) OR ((2W) (OR)) | PDY=[2016 TO 2025] AND (IPCM-LOW=(B32B OR C08F OR C08G OR C08H OR C08J5/18 OR C08L OR C12P) AND TIABC=((BIO* (1W) (PLASTIC OR POLYMER OR RESIN)) OR ((2W) (OR |

| | | | |
|-------------|---|---|--|
| 7. 3. 2 | B32B15/00, C09K9/00 | (DIMMER OR DIMMING OR (BRIGHTNESS (1N) ADJUST*) OR (BRILLIANCE (1N) ADJUST*) OR (INTENSITY (1N) ADJUST*) OR (HUMIDITY (1N) CONTROL) OR (HUMIDITY (1N) CONDITION*) OR INSULATION OR THERMOSTAT OR ((2N)) OR ((2N)) OR OR OR OR OR OR) | PDY=[2016 TO 2025] AND (IPCM-LOW=(B32B15/00 OR C09K9/00) AND TIABC=((DIMMER OR DIMMING OR (BRIGHTNESS (2N) ADJUST*) OR (BRILLIANCE (2N) ADJUST*) OR (INTENSITY (2N) ADJUST*) OR (HUMIDITY (2N) CONTROL) OR (HUMIDITY (2N) CONDITION*) OR INSULATION OR THERMOSTAT OR ((2N)) OR ((2N)) OR OR OR OR OR OR OR))) |
| 7. 3. 3 | C03C4/00, C03C27/12, C09D5/32, C09D5/33, C09D175/00 | | PDY=[2016 TO 2025] AND IPCM-LOW=(C03C4/00 OR C03C27/12 OR C09D5/32 OR C09D5/33 OR C09D175/00) |
| 8 | | | |
| 8. 1 | | | |
| 8. 1. 1 | F01N11/00 G01N33/00 | ((OR) (5N)) OR ((OR) (5N)) OR ((AIR OR ATMOSPHERIC) (5N) DETECT*) OR ((AIR OR ATMOSPHERIC) (5N) MONITOR*) | PDY=[2016 TO 2025] AND IPCM-LOW=F01N11/00 PDY=[2016 TO 2025] AND IPCM-LOW=G01N33/00 AND TIABC((((OR) (5N)) OR ((OR) (5N)) OR ((AIR OR ATMOSPHERIC) (5N) DETECT*) OR ((AIR OR ATMOSPHERIC) (5N) MONITOR*)) |
| 8. 1. 2 | G01N1, G01N5, G01N7, G0 | ((5N)) OR (| PDY=[2016 TO 2025] AND IPCM-LOW=(G01N1 OR |

| | | | |
|------------|---|---|--|
| | 1N9, G01N11, G01N13, G01N15, G01N21, G01N22, G01N23, G01N24, G01N25, G01N27, G01N29, G01N30, G01N31, G01N33, G01N35 | (5N)) OR (WATER\$ (5N) DETECT*) OR (WATER\$ (5N) MONITOR*) | G01N5 OR G01N7 OR G01N9 OR G01N11 OR G01N13 OR G01N15 OR G01N21 OR G01N22 OR G01N23 OR G01N24 OR G01N25 OR G01N27 OR G01N29 OR G01N30 OR G01N31 OR G01N33 OR G01N35) AND TIABC=(((5N)) OR ((5N)) OR (WATER\$ (5N) DETECT*) OR (WATER\$ (5N) MONITOR*)) |
| 8.2 | | | |
| 8.2.1 (包) | A62D3/00, B08B15/00, B08B17/00, G21F9/00 | | PDY=[2016 TO 2025] AND IPCM-LOW=(A62D3/00 OR B08B15/00 OR B08B17/00 OR G21F9/00) |
| 8.2.2 | B01D45/00, B01D46/00, B01D47/00, B01D49/00, B01D50/00, B01D53/00, B03C1/00, B03C3/00, B60W20/16, C01B17/60, C21B5/06, C21B7/22, E21F5/00, F01N3/00, F02B75/10, F23G7/06 | NOT: (OR OR "CO2" OR "CO" OR (CARBON MONOXIDE) OR (CARBON DIOXIDE) OR OR OR "CH4" OR FIREDAMP OR METHANE OR OR OR "N2O" OR (NITROUS OXIDE) OR OR OR OR "SF6" OR HYDROFLUOROCARBONS OR PERFLUOROCARBONS OR (SULFUR HEXAFLUORIDE) OR (NITROGEN TRIFLUORIDE) OR "NF3") | PDY=[2016 TO 2025] AND (IPCM-LOW=(B01D45/00 OR B01D46/00 OR B01D47/00 OR B01D49/00 OR B01D50/00 OR B01D53/00 OR B03C1/00 OR B03C3/00 OR B60W20/16 OR C01B17/60 OR C21B5/06 OR C21B7/22 OR E21F5/00 OR F01N3/00 OR F02B75/10 OR F23G7/06) NOT TIABC=(OR OR "CO2" OR "CO" OR (CARBON MONOXIDE) OR (CARBON DIOXIDE) OR OR OR "CH4" OR FIREDAMP OR METHANE OR OR OR "N2O" OR (NITROUS OXIDE) OR OR OR "SF6" OR HYDROFLUOROCARBONS OR PERFLUOROCARBONS OR (SULFUR HEXAFLUORIDE) OR (NITROGEN TRIFLUORIDE) OR "NF3")) |

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| 9. 1. 2 | 安 | B60K1/00 NOT B60K1/04, B60K6/00 NOT (B60K6/28 OR B60K6/30), B60K11/00, B60K16/00, B60K17/00 | (ENVIRONMENT OR ENVIRONMENTAL) AND (CONSERVATION OR PROTECT*)) OR SAVE OR ENERGY OR ECONOMIZ* OR RETRENCH* OR RECYCLE OR (OR OR OR OR OR) | PDY=[2016 TO 2025] AND (IPCM-LOW=((B60K1/00 NOT B60K1/04) OR (B60K6/00 NOT (B60K6/28 OR B60K6/30)) OR B60K11/00 OR B60K16/00 OR B60K17/00) AND TIABC=((ENVIRONMENT OR ENVIRONMENTAL) AND (CONSERVATION OR PROTECT*)) OR SAVE OR ENERGY OR ECONOMIZ* OR RETRENCH* OR RECYCLE OR (OR OR OR OR OR OR OR))) |
| 9. 1. 3 | | H02K1, H02K3, H02K9, H0 2K16, H02K17, H02K19, H 02K21, H02K25, H02K29/ 06 | EFFICIEN* OR LOSS* OR OR OR OR | PDY=[2016 TO 2025] AND (IPCM-LOW=(H02K1 OR H02K3 OR H02K9 OR H02K16 OR H02K17 OR H02K19 OR H02K21) AND TIABC=(EFFICIEN* OR LOSS* OR OR OR OR) OR IPCM-LOW=(H02K25 OR H02K29/06)) |
| 9. 1. 4 | | B60W10/00 NOT B60W10/26, B60W20/00 NOT B60W20/16 | ELECTRIC OR ELECTROMOTION OR | PDY=[2016 TO 2025] AND (IPCM-LOW=((B60W10/00 NOT B60W10/26) OR (B60W20/00 NOT B60W20/16)) AND TIABC=(ELECTRIC OR ELECTROMOTION OR)) |

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9. 3. 1

(氨) F02B, F02D, F02M

((HYDROGEN* OR "H2" OR PDY=[2016 TO 2025] AND ((IPCM-LOW=(F02B OR
) (5N) (FUEL OR F02D OR F02M) AND)
)), ((HYDROGEN* OR "H2"
OR) (5N) (COMBUST* OR
ENGINE OR OR
OR))

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| | A01G27/00, A01G29/00, E02B13/00 | (WATER AND EFFICIENT) OR OR ((2N)) OR ((2N)) | OR A01G25/00 OR A01G27/00 OR A01G29/00 OR E02B13/00) AND TIABC=((WATER AND SAV*) OR (WATER AND EFFICIENT) OR OR ((2N)) OR ((2N)))) |
| 10.2 | A01M1/00, A01M3/00, A01M5/00, A01M7/00, A01M9/00, A01M11/00, A01M13/00, A01M15/00, A01M17/00, A01M19/00, A01N25/32, A01N63/00, A01N65/00 | | PDY=[2016 TO 2025] AND IPCM-LOW=(A01M1/00 OR A01M3/00 OR A01M5/00 OR A01M7/00 OR A01M9/00 OR A01M11/00 OR A01M13/00 OR A01M15/00 OR A01M17/00 OR A01M19/00 OR A02N25/32 OR A02N63/00 OR A02N65/00) |
| 10.3 | (C05G3/00 NOT C05G3/02), (C05G3/00 NOT C05G3/60), C09K17/00 | ((SOIL (1N) IMPROV*) OR (SOIL (1N) CONDITIONER) OR SOILAMENDMENT OR SOILAMELIORATION OR LANDIMPROV* OR (LAND (1N) CONDITIONER) OR LANDAMENDMENT OR (LAND (1N) AMELIORATION) OR (SOIL (5N) IMPROV*) OR (LAND (5N) IMPROV*) OR (LAND (5N) AMEND*) OR (LAND (5N) AMELIORAT*) OR OR OR OR) | PDY=[2016 TO 2025] AND (IPCM-LOW=((C05G3/00 NOT (C05G3/02 OR C05G3/60)) OR C09K17/00) AND TIABC=((SOIL (2N) IMPROV*) OR (SOIL (2N) CONDITIONER) OR SOILAMENDMENT OR SOILAMELIORATION OR LANDIMPROV* OR (LAND (2N) CONDITIONER) OR LANDAMENDMENT OR (LAND (2N) AMELIORATION) OR (SOIL (5N) IMPROV*) OR (LAND (5N) IMPROV*) OR (LAND (5N) AMEND*) OR (LAND (5N) AMELIORAT*) OR OR OR))) |
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| | | (REMOTE (1N) OFFICE) OR (REMOTE (1N) WORK) OR (HIGH (1N) OCCUPANCY (1N) VEHICLE (1N) LANE) OR (HIGH (1N) OCCUPANCY (1N) TOLLING) OR (HIGH (1N) OCCUPANCY (1N) TOLL (1N) LANE) OR (HOV (1N) LANE) OR (HOT (1N) LANE) OR (CAR (1N) POOL (1N) LANE) OR (CARPOOL (1N) LANE) OR 办 OR 办 OR 办 OR 办 OR OR OR HOV OR OR OR) | TIABC=(TELECOMMUTING OR TELEWORK OR TELEWORKING OR TELE-OFFICE OR (REMOTE (2N) OFFICE) OR (REMOTE (2N) WORK) OR (HIGH (2N) OCCUPANCY (2N) VEHICLE (2N) LANE) OR (HIGH (2N) OCCUPANCY (2N) TOLLING) OR (HIGH (2N) OCCUPANCY (2N) TOLL (2N) LANE) OR (HOV (2N) LANE) OR (HOT (2N) LANE) OR (CAR (2N) POOL (2N) LANE) OR (CARPOOL (2N) LANE) OR 办 OR 办 OR OR OR OR HOV OR OR OR)) |
| 12. 2 | G06Q30/00, G06Q40/00, G06Q50/00 | CARBON OR EMISSION* OR OR | PDY=[2016 TO 2025] AND (IPCM-LOW=(G06Q30/00 OR G06Q40/00 OR G06Q50/00) AND TIABC=(CARBON OR EMISSION* OR OR)) |
| 12. 3 、 | E04B1/00, E04H1/00, E04H3/00 | (GREEN OR LOW-CARBON OR (ENVIRONMENTALLY (1N) FRIENDLY) OR ECOLOGICAL OR ENERGY-SAVING OR (ENERGY (1N) SAVING) OR ECO-BUILDING OR (HIGH (1N) ENERGY (1N) EFFICIENCY) OR (WATER (1N) SAVING) OR (ENVIRONMENT (1N) PROTECTION) OR (ECOLOGICAL (1N) | PDY=[2016 TO 2025] AND (IPCM-LOW=(E04B1/00 OR E04H1/00 OR E04H3/00) AND TIABC=(GREEN OR LOW-CARBON OR (ENVIRONMENTALLY (2N) FRIENDLY) OR ECOLOGICAL OR ENERGY-SAVING OR (ENERGY (2N) SAVING) OR ECO-BUILDING OR (HIGH (2N) ENERGY (2N) EFFICIENCY) OR (WATER (2N) SAVING) OR (ENVIRONMENT (2N) PROTECTION) OR (ECOLOGICAL (2N) PROTECTION) OR (ENVIRONMENT (2N) CONSERVATION) OR |

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| | | PROTECTION) OR (ENVIRONMENT (1N) CONSERVATION) OR (ECOLOGICAL (1N) CONSERVATION) OR ECO-BUILDING OR ECO-CONSTRUCTION OR ECO-INFRASTRUCTURE OR ECO-ARCHITECTURE OR OR OR OR OR OR OR) | (ECOLOGICAL (2N) CONSERVATION) OR ECO-BUILDING OR ECO-CONSTRUCTION OR ECO-INFRASTRUCTURE OR ECO-ARCHITECTURE OR OR OR OR OR OR OR OR)) |
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