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- ✓ SciFinder全新功能，**高效省時的專利閱讀**解決方案，提升工作流程效率。
- ✓ **快速與精準定位**特定化學物質於專利文獻中的段落，縮短尋找特定化學物質的時間。

# PatentPak™ 的好處與價值

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- ✓ **物質頁碼索引**- 快速導引物質於專利本文中的所在頁碼，方便定位專利中物質出現位置。
- ✓ 全新**專利閱讀導航**-Patent Viewer，點選物質對應頁碼立即開啟 Patent Viewer 瀏覽，專利訊息**解讀更容易**，並可連結SciFinder 進行物質進階查詢，讓**流程更加簡化**。

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Patent "US20080078739" > references (3)

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Booth Jean Paul 1

Fujita Minoru 1

Hattori Kazuhiro 1

Hibi Mikiharu 1

Kajii Yoshio 1

1. Capacitively-coupled electrostatic (CCE) probe arrangement for detecting strike step in a plasma processing chamber and methods thereof

Patent No.	Kind	Language
WO 201005930	A2	English
JP 2011527521	T	Japanese
JP 5427888	B2	Japanese
CN 104320899	A	Chinese

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Published: without international search report and to be republished upon receipt of that report (Rule 48.2(g)).

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中國		印度		法國		英國	
德國		韓國		俄羅斯			



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The screenshot displays the Patent Viewer interface. On the left, a list of key substances is shown, with the entry for CAS RN 1626333-91-2 highlighted in red. The main view shows the detailed information for this substance, including its chemical structure and a link to the patent page 127. The right side of the interface shows the full patent text, including the chemical reaction scheme and the corresponding NMR and HRMS data for Compound 1-4, which is also highlighted in red.

**Key Substances in Patent**

CAS RN	Page
1626333-91-2	Page 127 in PatentPak™
1636182-62-1P	Page 127 in PatentPak™
1636182-63-2P	Page 127 in PatentPak™
1636182-65-4P	Page 127 in PatentPak™
1636182-66-5P	Page 128 in PatentPak™
1636182-67-6P	Page 128 in PatentPak™
1636182-68-7P	Page 128 in PatentPak™
1636182-69-8P	Page 128 in PatentPak™

**Key Substance: CAS RN 1626333-91-2**

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Analyst Markup Location

page 127

**Chemical Structure:**

C1=NC(=C(C=C1)N(C)C)C2=CC=CC=C2

**Patent Text:**

WO 2014/17562 PCT/US2014/06355

Scheme 1. Exemplary synthesis of certain compounds of Formula (I), wherein R<sup>A</sup> and R<sup>B</sup> are as described herein.

[00269] In one set of experiments, a mixture of compounds 1 and 4 in EtOH was irradiated in the microwave oven at 150 °C for 5 h. The reaction mixture was purified by flash column chromatography to yield a compound of Formula (I), Compound

[00270] **Compound 1-1:** <sup>1</sup>H NMR (500 MHz, CDCl<sub>3</sub>) δ 4.08–4.13 (m, 3H), 3.99–4.01 (m, 3H), 3.84–3.88 (m, 3H), 2.30–2.48 (m, 12H), 2.24 (s, 9H), 1.27–1.44 (m, 24H), 0.88 (t, J = 7.0 Hz, 9H). HRMS (ESI) calcd for C<sub>27</sub>H<sub>42</sub>N<sub>2</sub>O<sub>4</sub> [M+H]<sup>+</sup> 643.5122, found 643.5203.

[00271] **Compound 1-2:** <sup>1</sup>H NMR (500 MHz, CDCl<sub>3</sub>) δ 4.08–4.13 (m, 3H), 3.98–4.00 (m, 3H), 3.83–3.86 (m, 3H), 2.33–2.47 (m, 12H), 2.24 (s, 9H), 1.26–1.46 (m, 36H), 0.88 (t, J = 7.0 Hz, 9H). HRMS (ESI) calcd for C<sub>33</sub>H<sub>52</sub>N<sub>2</sub>O<sub>4</sub> [M+H]<sup>+</sup> 727.6056, found 727.6116.

[00272] **Compound 1-3:** <sup>1</sup>H NMR (500 MHz, CDCl<sub>3</sub>) δ 4.08–4.13 (m, 3H), 3.99–4.00 (m, 3H), 3.84–3.87 (m, 3H), 2.30–2.47 (m, 12H), 2.24 (s, 9H), 1.26–1.44 (m, 60H), 0.88 (t, J = 7.0 Hz, 9H). HRMS (ESI) calcd for C<sub>39</sub>H<sub>62</sub>N<sub>2</sub>O<sub>4</sub> [M+H]<sup>+</sup> 805.7934, found 805.7937.

[00273] **Compound 1-4:** <sup>1</sup>H NMR (500 MHz, CDCl<sub>3</sub>) δ 4.08–4.11 (m, 3H), 3.98–3.99 (m, 3H), 3.84–3.87 (m, 3H), 2.33–2.45 (m, 12H), 2.24 (s, 9H), 1.25–1.44 (m, 96H), 0.88 (t, J = 7.0 Hz, 9H). HRMS (ESI) calcd for C<sub>45</sub>H<sub>72</sub>N<sub>2</sub>O<sub>4</sub> [M+H]<sup>+</sup> 1148.0751, found 1148.0615.

**PatentPak™**

Key Substances in Patent

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page 127

**CAS RN 1626333-91-2**

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page 127

**CAS RN 1636182-65-4**

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page 127

**CAS RN 2451-62-9**

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*Scheme 1. Exemplary synthesis of certain compounds of Formula (I), wherein R<sup>A</sup> and R<sup>B</sup> are as described herein.*

**[00269]** In one set of experiments, a mixture of compounds 1 and 4 in EtOH was irradiated in the microwave oven at 150 °C for 5 h. The reaction mixture was purified by flash column chromatography to yield a compound of Formula (I). Compound

**[00270]** **Compound 1-1:** <sup>1</sup>H NMR (500 MHz, CDCl<sub>3</sub>) δ 4.08–4.13 (m, 3H), 3.99–4.01 (m, 3H), 3.84–3.88 (m, 3H), 2.30–2.48 (m, 12H), 2.24 (s, 9H), 1.27–1.44 (m, 24H), 0.88 (t, *J* = 7.0 Hz, 9H). HRMS (ESI) calcd for C<sub>13</sub>H<sub>17</sub>N<sub>2</sub>O<sub>6</sub> [M+H]<sup>+</sup> 643.5122, found 643.5203.

**[00271]** **Compound 1-2:** <sup>1</sup>H NMR (500 MHz, CDCl<sub>3</sub>) δ 4.08–4.13 (m, 3H), 3.98–4.00 (m, 3H), 3.83–3.86 (m, 3H), 2.33–2.47 (m, 12H), 2.24 (s, 9H), 1.26–1.46 (m, 36H), 0.88 (t, *J* = 7.0 Hz, 9H). HRMS (ESI) calcd for C<sub>19</sub>H<sub>25</sub>N<sub>2</sub>O<sub>6</sub> [M+H]<sup>+</sup> 727.6056, found 727.6116.

**[00272]** **Compound 1-3:** <sup>1</sup>H NMR (500 MHz, CDCl<sub>3</sub>) δ 4.08–4.13 (m, 3H), 3.99–4.00 (m, 3H), 3.84–3.87 (m, 3H), 2.30–2.47 (m, 12H), 2.24 (s, 9H), 1.26–1.44 (m, 60H), 0.88 (t, *J* = 7.0 Hz, 9H). HRMS (ESI) calcd for C<sub>27</sub>H<sub>37</sub>N<sub>2</sub>O<sub>6</sub> [M+H]<sup>+</sup> 895.7934, found 895.7937.

**[00273]** **Compound 1-4:** <sup>1</sup>H NMR (500 MHz, CDCl<sub>3</sub>) δ 4.08–4.11 (m, 3H), 3.98–3.99 (m, 3H), 3.84–3.87 (m, 3H), 2.33–2.45 (m, 12H), 2.24 (s, 9H), 1.25–1.44 (m, 96H), 0.88 (t, *J* = 7.0 Hz, 9H). HRMS (ESI) calcd for C<sub>40</sub>H<sub>53</sub>N<sub>2</sub>O<sub>6</sub> [M+H]<sup>+</sup> 1148.0751, found 1148.0615.

**Compound 1-5:** <sup>1</sup>H NMR (500 MHz, CDCl<sub>3</sub>) δ 4.08–4.13 (m, 3H), 3.93–3.95 (m, 3H), 1.34–1.42 (m, 12H), 1.26–1.33 (m, 12H), 1.39–1.41 (m, 12H), 0.89 (t, *J* = 7.0 Hz, 18H). HRMS (ESI) calcd for C<sub>20</sub>H<sub>27</sub>N<sub>2</sub>O<sub>6</sub> [M+H]<sup>+</sup> 597.



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Coach Hsu ; Claudia Syu ; iGroup TW CAS