

# **EXHIBIT 27**

**Exhibit 27**  
**U.S. Patent No. 11,903,546 – Infringement Claim Chart**

Pursuant to 19 C.F.R. § 210.12(a)(9)(viii), below is a chart that applies asserted independent claim 10 of U.S. Patent No. 11,903,546 (“the ’546 Patent”) to the accused Dyson V15 Detect (referred to herein as the “Dyson V15”). Based on currently available information, the Dyson V15 is representative of all products accused of infringing the ’546 Patent. The arguments and evidence cited in the chart below are representative and Complainants reserve the right to rely on additional arguments and evidence to show that the Accused Products infringe the asserted claims of the ’546 Patent.

| Claim Element                                | Dyson V15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 10. A surface cleaning apparatus comprising: | <p>To the extent the preamble is limiting, the Dyson V15 is a surface cleaning apparatus.</p> <p>For example, the image below shows that the Dyson V15 is a surface cleaning apparatus.</p>  <p>Whole-home cleaning versatility<br/>The versatility of Dyson cordless vacuum technology, tools, and accessories makes deep cleaning your whole home from floor to ceiling easier.</p> <p><a href="https://www.dyson.com/vacuum-cleaners/cordless/v15">https://www.dyson.com/vacuum-cleaners/cordless/v15</a> (last accessed Apr. 2, 2024).</p> |
| (a) a hand vacuum cleaner comprising:        | The Dyson V15 includes a hand vacuum cleaner.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

**Exhibit 27**  
**U.S. Patent No. 11,903,546 – Infringement Claim Chart**

| Claim Element | Dyson V15                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|               | <p data-bbox="695 245 1850 277">For example, the images below show that the Dyson V15 includes a hand vacuum cleaner.</p> <div data-bbox="982 334 1602 915"></div> <p data-bbox="695 967 1850 1036"><a href="https://www.dyson.com/vacuum-cleaners/cordless/v15/detect-yellow">https://www.dyson.com/vacuum-cleaners/cordless/v15/detect-yellow</a> (last accessed Apr. 2, 2024).</p> |

**Exhibit 27**  
**U.S. Patent No. 11,903,546 – Infringement Claim Chart**

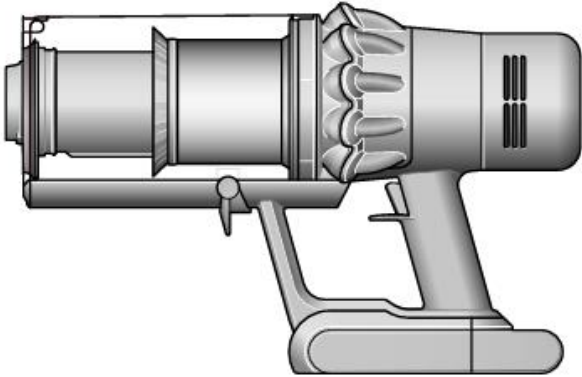
| Claim Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Dyson V15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  <p data-bbox="695 699 1163 732">Ex. 55 at 2 (diagram of Dyson V15).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <p data-bbox="201 748 667 1219">(i) a main body comprising a lower end, an upper end, a front end, a rear end and a pistol grip handle, the main body housing a suction motor and fan assembly, the suction motor and fan assembly having a suction motor axis of rotation, the pistol grip handle is provided at the rear end of the main body and extends upwardly and forwardly when the hand vacuum cleaner is positioned with the front end forward of the rear end; and,</p> | <p data-bbox="695 748 1898 886">The hand vacuum cleaner of the Dyson V15 comprises a main body comprising a lower end, an upper end, a front end, a rear end and a pistol grip handle, the main body housing a suction motor and fan assembly, the suction motor and fan assembly having a suction motor axis of rotation.</p> <p data-bbox="695 943 1839 1081">For example, the annotated image below shows that the Dyson V15 hand vacuum cleaner includes a main body comprising a lower end, an upper end, a front end, a rear end and a pistol grip handle, the main body housing a suction motor and fan assembly, the suction motor and fan assembly having a suction motor axis of rotation.</p> |

**Exhibit 27**  
**U.S. Patent No. 11,903,546 – Infringement Claim Chart**

| Claim Element | Dyson V15                                                                                                                                                                                                                                                                                                                         |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|               | <p>Ex. 55 at 2 (diagram of Dyson V15) (annotated).</p> <p>For example, the annotated image below shows that the Dyson V15 includes a pistol grip handle provided at the rear end of the main body and extending upwardly and forwardly when the hand vacuum cleaner is positioned with the front end forward of the rear end.</p> |

**Exhibit 27**  
**U.S. Patent No. 11,903,546 – Infringement Claim Chart**

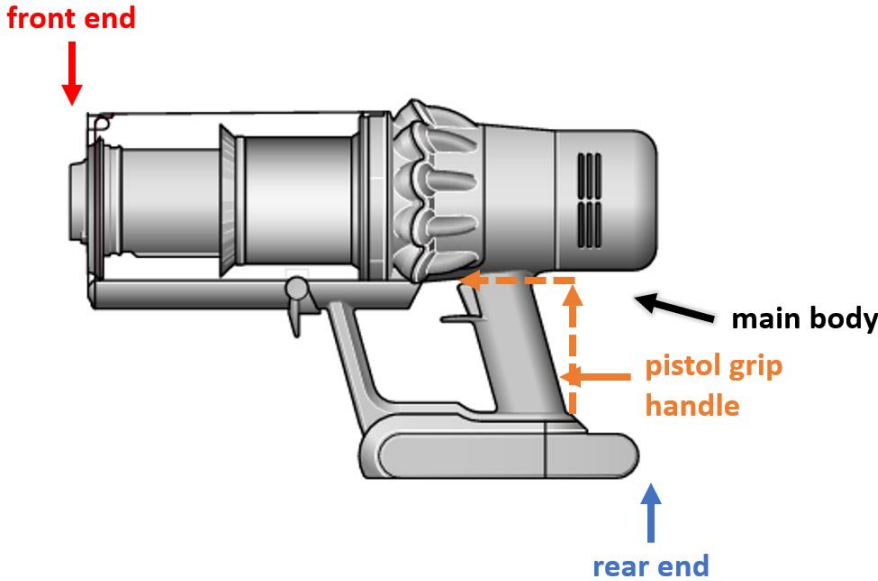
| Claim Element                                                                                                                                                                                                                                                                                             | Dyson V15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                           |  <p style="text-align: center;">Ex. 55 at 2 (diagram of Dyson V15) (annotated).</p>                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <p>(ii) a cyclone unit comprising a cyclone chamber having a cyclone axis of rotation, a front end and a rear end wherein air exits the cyclone chamber at the rear end of the cyclone chamber, wherein the suction motor axis of rotation is generally parallel to the cyclone axis of rotation; and</p> | <p>The hand vacuum cleaner of the Dyson V15 comprises a cyclone unit positioned in the air flow passage upstream from the suction motor, the cyclone unit comprising a cyclone having a front end, a rear end, a cyclone axis of rotation extending between the front and rear ends of the cyclone.</p> <p>For example, the images below show that the Dyson V15 hand vacuum cleaner includes a cyclone unit comprising a cyclone chamber having a cyclone axis of rotation, a front end and a rear end wherein air exits the cyclone chamber at the rear end of the cyclone chamber.</p> |

**Exhibit 27**  
**U.S. Patent No. 11,903,546 – Infringement Claim Chart**

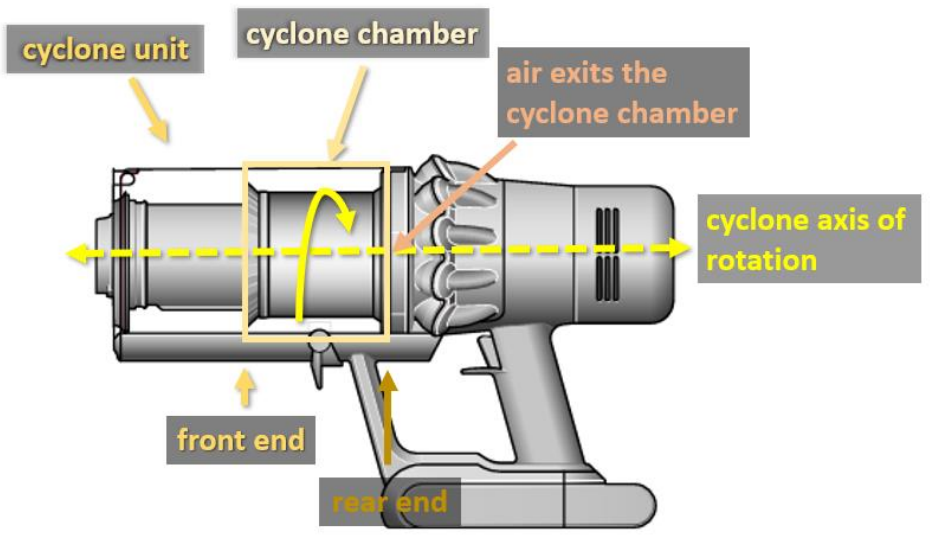
| Claim Element | Dyson V15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|               | <div data-bbox="840 276 1764 812">An annotated diagram of the Dyson V15 cyclone unit. The diagram shows a cross-section of the unit with a yellow dashed line representing the 'cyclone axis of rotation' running horizontally through the center. A yellow curved arrow indicates the direction of rotation. Labels with arrows point to various parts: 'cyclone unit' points to the entire assembly; 'cyclone chamber' points to the internal cylindrical space; 'air exits the cyclone chamber' points to the outlet at the rear; 'front end' points to the left side of the unit; and 'rear end' points to the right side of the unit. The unit is shown attached to the handle of the vacuum.</div> <p data-bbox="690 873 1316 909">Ex. 55 at 2 (diagram of Dyson V15) (annotated).</p> <p data-bbox="690 959 1841 1029">For example, the image below shows that the Dyson V15 includes a suction motor axis of rotation that is generally parallel to the cyclone axis of rotation.</p> |

**Exhibit 27**  
**U.S. Patent No. 11,903,546 – Infringement Claim Chart**

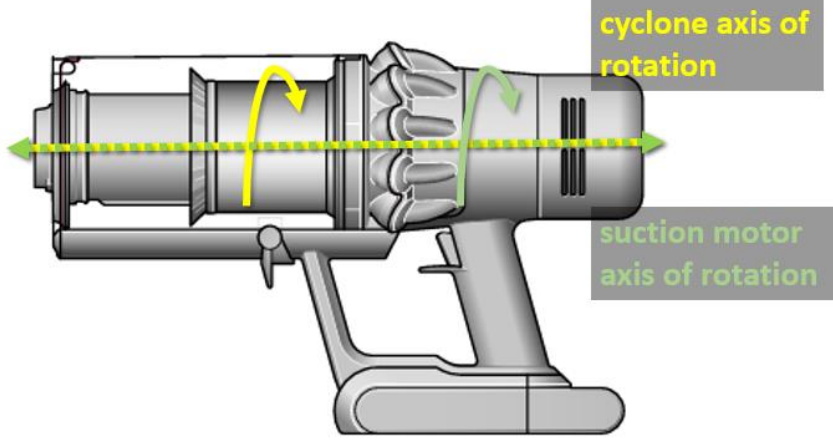
| Claim Element                                                                                                                       | Dyson V15                                                                                                                                                                                                                                                                                               |
|-------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                     |  <p>Ex. 55 at 2 (diagram of Dyson V15) (annotated).</p>                                                                                                                                                               |
| (b) a dirt collection chamber that is exterior to the cyclone chamber and a forward end of the dirt collection chamber is openable; | <p>The Dyson V15 comprises a dirt collection chamber that is exterior to the cyclone chamber and a forward end of the dirt collection chamber is openable.</p> <p>For example, the image below shows that the Dyson V15 includes a dirt collection chamber that is exterior to the cyclone chamber.</p> |

**Exhibit 27**  
**U.S. Patent No. 11,903,546 – Infringement Claim Chart**

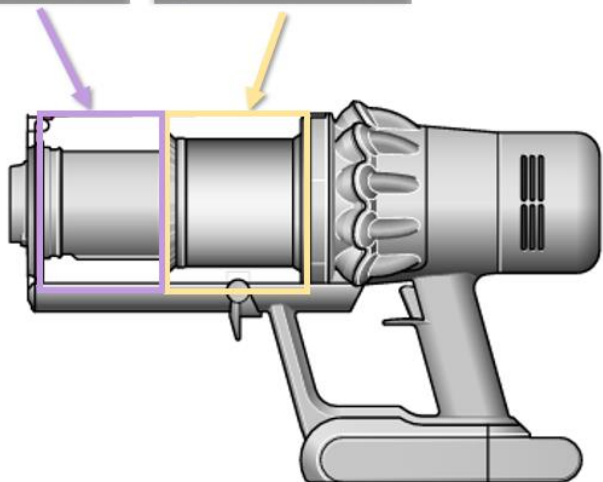
| Claim Element | Dyson V15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|               | <div data-bbox="877 267 1701 795"><p>The diagram shows a side cross-section of the motor unit of a Dyson V15 cordless stick vacuum. Two rectangular callout boxes are positioned above the unit. The first box, labeled 'dirt collection chamber', has a purple arrow pointing to a purple-outlined rectangular area at the front of the motor unit. The second box, labeled 'cyclone chamber', has a yellow arrow pointing to a yellow-outlined rectangular area immediately behind the dirt collection chamber. The motor unit itself is shown in a three-quarter view, highlighting the internal components and the handle at the rear.</p></div> <p data-bbox="688 860 1316 898">Ex. 55 at 2 (diagram of Dyson V15) (annotated).</p> <p data-bbox="688 946 1877 1016">For example, the images below show that a forward end of the dirt collection chamber of the Dyson V15 is openable.</p> |

Exhibit 27  
U.S. Patent No. 11,903,546 – Infringement Claim Chart

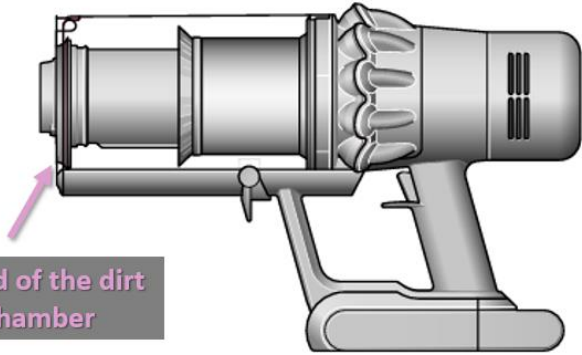
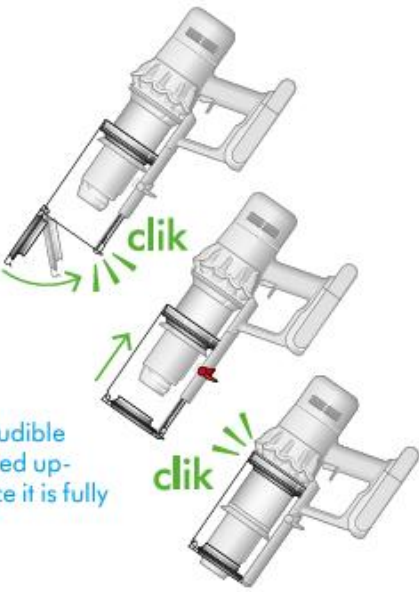
| Claim Element | Dyson V15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|               | <div data-bbox="926 261 1665 613"><p>forward end of the dirt collection chamber</p></div> <div data-bbox="921 712 1650 1300"><p>The bin lid closing with an audible click and the bin being pushed upwards with another click once it is fully in place.</p></div> <p>Ex. 55 at 2, 7 (diagrams of Dyson V15).</p> |

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| Claim Element                                                                                                         | Dyson V15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| (c) a surface cleaning head having a front end, a rear end, a dirty air inlet and a cleaning head air outlet;<br>and, | <p>The Dyson V15 comprises a surface cleaning head having a front end, a rear end, a dirty air inlet and a cleaning head air outlet.</p> <p>For example, the images below show that the Dyson V15 includes a surface cleaning head having a front end, a rear end, a dirty air inlet and a cleaning head air outlet.</p> <div data-bbox="989 505 1608 1227"></div> <p><a href="https://www.dyson.com/vacuum-cleaners/cordless/v15/detect-yellow">https://www.dyson.com/vacuum-cleaners/cordless/v15/detect-yellow</a> (last accessed Apr. 2, 2024) (annotated).</p> |

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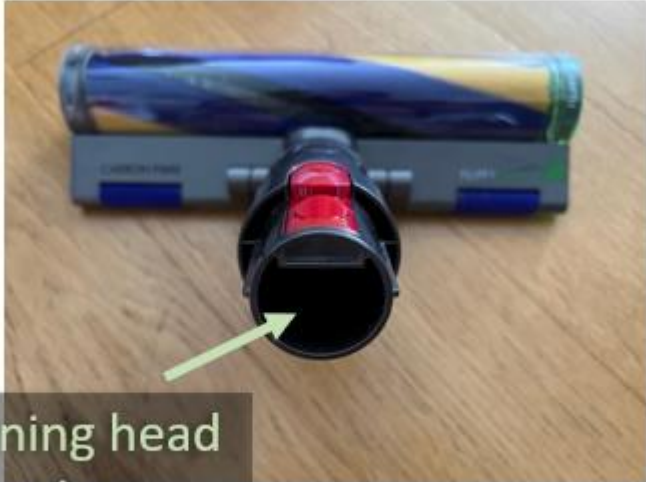
| Claim Element | Dyson V15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|               | <div data-bbox="1024 297 1665 776"><p data-bbox="913 690 1270 836">cleaning head<br/>air outlet</p></div> <div data-bbox="829 914 1759 1317"><p data-bbox="829 914 1003 971">front end</p><p data-bbox="1549 1109 1759 1166">dirt air inlet</p><p data-bbox="1413 1263 1581 1317">rear end</p></div> <p data-bbox="688 1377 1480 1412">Photos of Dyson V15 Fluffy Optic cleaning head (annotated).</p> |

**Exhibit 27**  
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| Claim Element                                                                                                                                                                                                                                                                                                                          | Dyson V15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>(d) a rigid air flow conduit that is removably mountable to the surface cleaning head and, when attached to the hand vacuum cleaner and the surface cleaning head, extends between the cleaning head air outlet and a hand vacuum cleaner air inlet, the rigid air flow conduit having a longitudinally extending conduit axis,</p> | <p>The Dyson V15 comprises a rigid air flow conduit that is removably mountable to the surface cleaning head and, when attached to the hand vacuum cleaner and the surface cleaning head, extends between the cleaning head air outlet and a hand vacuum cleaner air inlet, the rigid air flow conduit having a longitudinally extending conduit axis.</p> <p>For example, the images below show that the Dyson V15 includes a rigid air flow conduit that is removably mountable to the surface cleaning head and, when attached to the hand vacuum cleaner and the surface cleaning head, extends between the cleaning head air outlet and a hand vacuum cleaner air inlet, the rigid air flow conduit having a longitudinally extending conduit axis.</p>  <p>The diagram illustrates the Dyson V15 stick vacuum. It shows a long, silver, rigid air flow conduit. At the top, a blue arrow points to the 'hand vacuum cleaner' (the motor unit). A yellow arrow points to the 'hand vacuum cleaner air inlet' on the side of the motor unit. At the bottom, a green arrow points to the 'cleaning head air outlet' on the side of the 'surface cleaning head'. A purple arrow points to the main body of the conduit, with the text 'rigid air flow conduit extends between' next to it. The surface cleaning head is shown at the bottom, with a green arrow pointing to it from the label 'surface cleaning head'.</p> |

**Exhibit 27**  
**U.S. Patent No. 11,903,546 – Infringement Claim Chart**

| Claim Element                                                                                                                                                       | Dyson V15                                                                                                                                                                                                                                                                                                                                                                                                             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                     |  <p><a href="https://www.dyson.com/vacuum-cleaners/cordless/v15/detect-yellow">https://www.dyson.com/vacuum-cleaners/cordless/v15/detect-yellow</a> (last accessed Apr. 2, 2024) (annotated).</p>                                                                                                                                  |
| <p>wherein the hand vacuum cleaner is removably mountable to a downstream end of the rigid air flow conduit and, when the hand vacuum cleaner is mounted to the</p> | <p>The hand vacuum cleaner of the Dyson V15 is removably mountable to a downstream end of the rigid air flow conduit and, when the hand vacuum cleaner is mounted to the downstream end of the rigid air flow conduit, the handle is a driving handle for the surface cleaning apparatus and the longitudinally extending conduit axis of the rigid air flow conduit is parallel to the cyclone axis of rotation.</p> |

**Exhibit 27**  
**U.S. Patent No. 11,903,546 – Infringement Claim Chart**

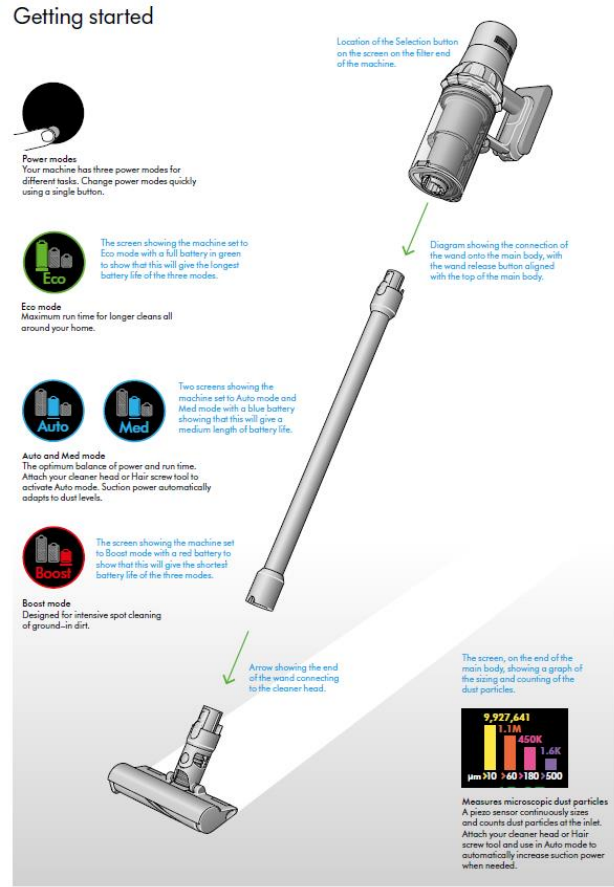
| Claim Element                                                                                                                                                                                                                                       | Dyson V15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>downstream end of the rigid air flow conduit, the handle is a driving handle for the surface cleaning apparatus and the longitudinally extending conduit axis of the rigid air flow conduit is parallel to the cyclone axis of rotation, and</p> | <p>For example, the image below shows that the Dyson V15 hand vacuum cleaner is removably mountable to a downstream end of the rigid air flow conduit.</p>  <p>The diagram, titled "Getting started", illustrates the assembly and power modes of the Dyson V15. It shows the main body, a long rigid air flow conduit, and a cleaner head. The main body has a screen at the filter end. The diagram shows the connection of the wand to the main body, with the wand release button aligned with the top of the main body. The diagram also shows the connection of the wand to the cleaner head. The diagram includes a bar chart showing the dust particle count and size distribution. The bar chart shows the dust particle count for three power modes: Eco, Auto, and Boost. The bar chart also shows the dust particle size distribution for three power modes: Eco, Auto, and Boost. The bar chart shows the dust particle count for three power modes: Eco, Auto, and Boost. The bar chart also shows the dust particle size distribution for three power modes: Eco, Auto, and Boost.</p> <p><b>Power modes</b><br/>Your machine has three power modes for different tasks. Change power modes quickly using a single button.</p> <p><b>Eco mode</b><br/>Maximum run time for longer cleans all around your home.</p> <p><b>Auto and Med mode</b><br/>The optimum balance of power and run time. Attach your cleaner head or Hair screw tool to activate Auto mode. Suction power automatically adapts to dust levels.</p> <p><b>Boost mode</b><br/>Designed for intensive spot cleaning of ground-in dirt.</p> <p><b>Diagram showing the connection of the wand into the main body, with the wand release button aligned with the top of the main body.</b></p> <p><b>Arrow showing the end of the wand connecting to the cleaner head.</b></p> <p><b>The screen, on the end of the main body, showing a graph of the dust particle count.</b></p> <p><b>Measures microscopic dust particles</b><br/>A piezo sensor continuously sizes and counts dust particles at the inlet. Attach your cleaner head or Hair screw tool and use in Auto mode to automatically increase suction power when needed.</p> <p>Ex. 55 (diagram of Dyson V15) at 3.</p> |

**Exhibit 27**  
**U.S. Patent No. 11,903,546 – Infringement Claim Chart**

| Claim Element | Dyson V15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|               | <p data-bbox="695 289 1892 428">For example, the images below show that when the hand vacuum cleaner of the Dyson V15 is mounted to the downstream end of the rigid air flow conduit, the handle is a driving handle for the surface cleaning apparatus and the longitudinally extending conduit axis of the rigid air flow conduit is parallel to the cyclone axis of rotation.</p> <div data-bbox="814 509 1745 1094"><p data-bbox="814 509 1150 558">pistol grip handle</p>A photograph of a person using a Dyson V15 cordless stick vacuum cleaner. The person is standing on a light-colored floor, and the vacuum is extended downwards. An orange arrow points from the text 'pistol grip handle' to the handle of the vacuum. The vacuum is purple and grey, with a long silver extension tube. The background shows a staircase and a wooden cabinet.</div> <p data-bbox="695 1159 1850 1224"><a href="https://www.dyson.com/vacuum-cleaners/cordless/v15/detect-yellow">https://www.dyson.com/vacuum-cleaners/cordless/v15/detect-yellow</a> (last accessed Apr. 2, 2024) (annotated).</p> |

**Exhibit 27**  
**U.S. Patent No. 11,903,546 – Infringement Claim Chart**

| Claim Element                                                                                                                      | Dyson V15                                                                                                                                                                                                                                                                                                                                   |
|------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                    |  <p><a href="https://www.dyson.com/vacuum-cleaners/cordless/v15/detect-yellow">https://www.dyson.com/vacuum-cleaners/cordless/v15/detect-yellow</a> (last accessed Apr. 2, 2024) (annotated).</p>                                                        |
| <p>wherein a finger grip area is provided at a location that is forward of the pistol grip handle and rearward of the cyclone.</p> | <p>The Dyson V15 includes a finger grip area is provided at a location that is forward of the pistol grip handle and rearward of the cyclone.</p> <p>For example, the image below shows that the Dyson V15 includes a finger grip area is provided at a location that is forward of the pistol grip handle and rearward of the cyclone.</p> |

**Exhibit 27**  
**U.S. Patent No. 11,903,546 – Infringement Claim Chart**

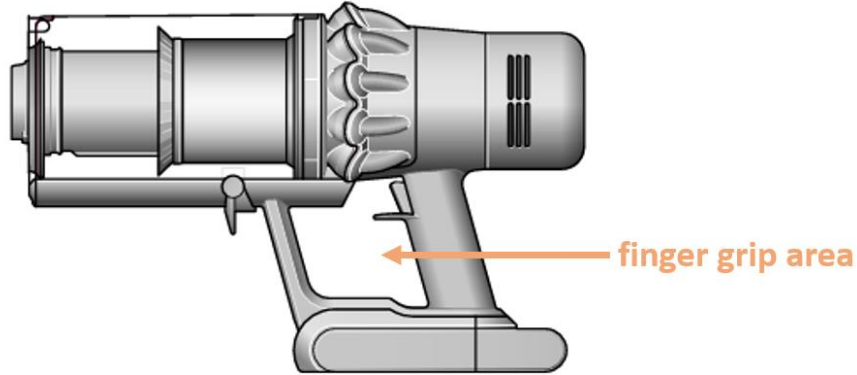
| Claim Element                                | Dyson V15                                                                                                                                                                                                                                                                                                                                                |
|----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                              | <div data-bbox="871 277 1722 649"></div> <p data-bbox="690 732 1856 802"><a href="https://www.dyson.com/vacuum-cleaners/cordless/v15/detect-yellow">https://www.dyson.com/vacuum-cleaners/cordless/v15/detect-yellow</a> (last accessed Apr. 2, 2024) (annotated).</p> |
| 15. A surface cleaning apparatus comprising: | <p data-bbox="690 816 1787 852">To the extent the preamble is limiting, the Dyson V15 is a surface cleaning apparatus.</p> <p data-bbox="690 899 1829 935">For example, the image below shows that the Dyson V15 is a surface cleaning apparatus.</p>                                                                                                    |

**Exhibit 27**  
**U.S. Patent No. 11,903,546 – Infringement Claim Chart**

| Claim Element                         | Dyson V15                                                                                                                                                                                                                                                                                                                                                                                                                             |
|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                       |  <p>Whole-home cleaning versatility<br/> The versatility of Dyson cordless vacuum technology, tools, and accessories makes deep cleaning your whole home from floor to ceiling easier.</p> <p><a href="https://www.dyson.com/vacuum-cleaners/cordless/v15">https://www.dyson.com/vacuum-cleaners/cordless/v15</a> (last accessed Apr. 2, 2024).</p> |
| (a) a hand vacuum cleaner comprising: | <p>The Dyson V15 includes a hand vacuum cleaner.</p> <p>For example, the images below show that the Dyson V15 includes a hand vacuum cleaner.</p>                                                                                                                                                                                                                                                                                     |

**Exhibit 27**  
**U.S. Patent No. 11,903,546 – Infringement Claim Chart**

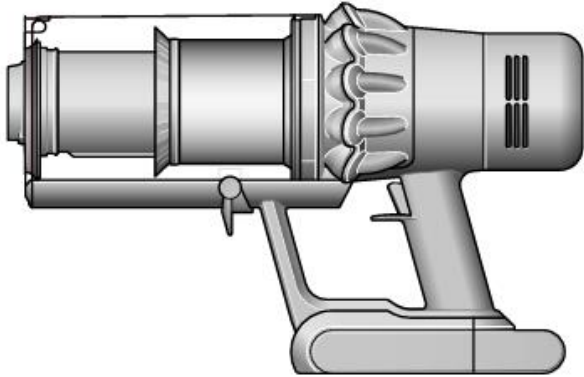
| Claim Element | Dyson V15                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|               | <div data-bbox="982 250 1602 831"></div> <p data-bbox="695 881 1854 954"><a href="https://www.dyson.com/vacuum-cleaners/cordless/v15/detect-yellow">https://www.dyson.com/vacuum-cleaners/cordless/v15/detect-yellow</a> (last accessed Apr. 2, 2024).</p> <div data-bbox="1008 1015 1587 1390"></div> |

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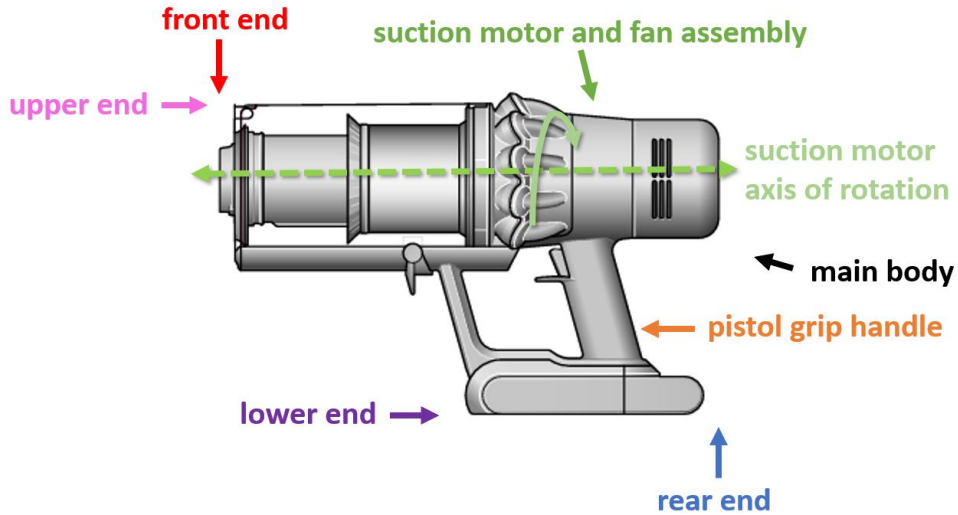
| Claim Element | Dyson V15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|               | <p>Ex. 55 at 2 (diagram of Dyson V15).</p> <p>(i) a main body comprising a lower end, an upper end, a front end, a rear end and a pistol grip handle, the main body housing a suction motor and fan assembly, the suction motor and fan assembly having a suction motor axis of rotation, the pistol grip handle is provided at the rear end of the main body and extends upwardly and forwardly when the hand vacuum cleaner is positioned with the front end forward of the rear end; and,</p> <p>The hand vacuum cleaner of the Dyson V15 comprises a main body comprising a lower end, an upper end, a front end, a rear end and a pistol grip handle, the main body housing a suction motor and fan assembly, the suction motor and fan assembly having a suction motor axis of rotation.</p> <p>For example, the annotated image below shows that the Dyson V15 hand vacuum cleaner includes a main body comprising a lower end, an upper end, a front end, a rear end and a pistol grip handle, the main body housing a suction motor and fan assembly, the suction motor and fan assembly having a suction motor axis of rotation.</p>  <p>Ex. 55 at 2 (diagram of Dyson V15) (annotated).</p> |

**Exhibit 27**  
**U.S. Patent No. 11,903,546 – Infringement Claim Chart**

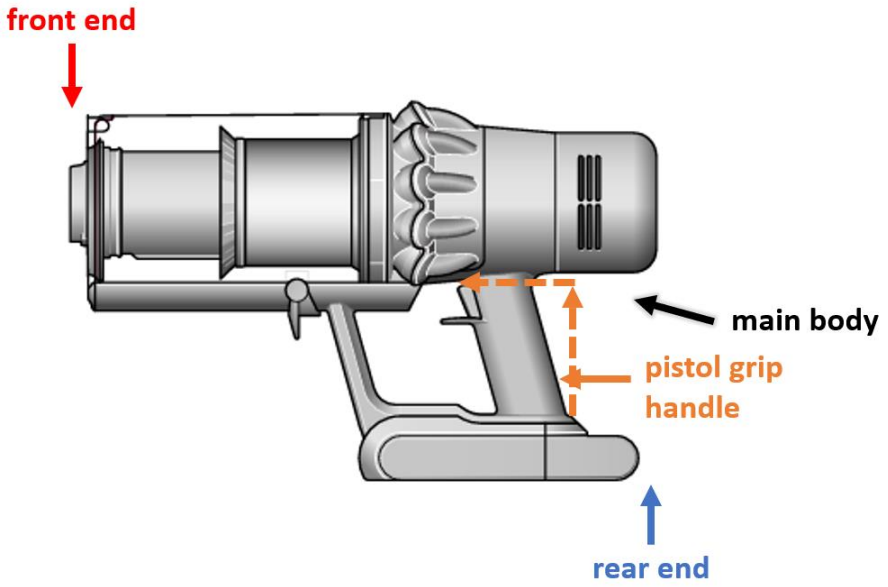
| Claim Element                                                                                                                                                                                                                                                                                              | Dyson V15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                            | <p>For example, the annotated image below shows that the Dyson V15 includes a pistol grip handle provided at the rear end of the main body and extending upwardly and forwardly when the hand vacuum cleaner is positioned with the front end forward of the rear end.</p>  <p style="text-align: center;">Ex. 55 at 2 (diagram of Dyson V15) (annotated).</p>                                                 |
| <p>(ii) a cyclone unit comprising a cyclone chamber and a dirt collection chamber that is exterior to the cyclone chamber, the cyclone chamber having a cyclone axis of rotation, a front end and a rear end wherein air exits the cyclone chamber at the rear end of the cyclone chamber, wherein the</p> | <p>The hand vacuum cleaner of the Dyson V15 comprises a cyclone unit positioned in the air flow passage upstream from the suction motor, the cyclone unit comprising a cyclone having a front end, a rear end, a cyclone axis of rotation extending between the front and rear ends of the cyclone.</p> <p>For example, the image below shows that the Dyson V15 includes a cyclone unit comprising a cyclone chamber and a dirt collection chamber that is exterior to the cyclone chamber.</p> |

**Exhibit 27**  
**U.S. Patent No. 11,903,546 – Infringement Claim Chart**

| Claim Element                                                                                                                                                                                                                                                           | Dyson V15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>suction motor axis of rotation is generally parallel to the cyclone axis of rotation, and a line that is parallel to the cyclone axis extends through the dirt collection chamber and a location interior of a radial outer perimeter of a pre-motor filter; and</p> | <div data-bbox="871 256 1711 820" data-label="Image"> <p>The diagram shows a side profile of a Dyson V15 stick vacuum. A yellow arrow points to the 'cyclone unit' at the front. A purple arrow points to the 'dirt collection chamber' which is the main body of the vacuum. A yellow arrow points to the 'cyclone chamber' located inside the dirt collection chamber. The diagram illustrates the internal components and their relative positions within the vacuum's body.</p> </div> <p>Ex. 55 at 2 (diagram of Dyson V15) (annotated).</p> <p>For example, the images below show that the Dyson V15 hand vacuum cleaner includes a cyclone chamber having a cyclone axis of rotation, a front end and a rear end wherein air exits the cyclone chamber at the rear end of the cyclone chamber, wherein the suction motor axis of rotation is generally parallel to the cyclone axis of rotation.</p> |

**Exhibit 27**  
**U.S. Patent No. 11,903,546 – Infringement Claim Chart**

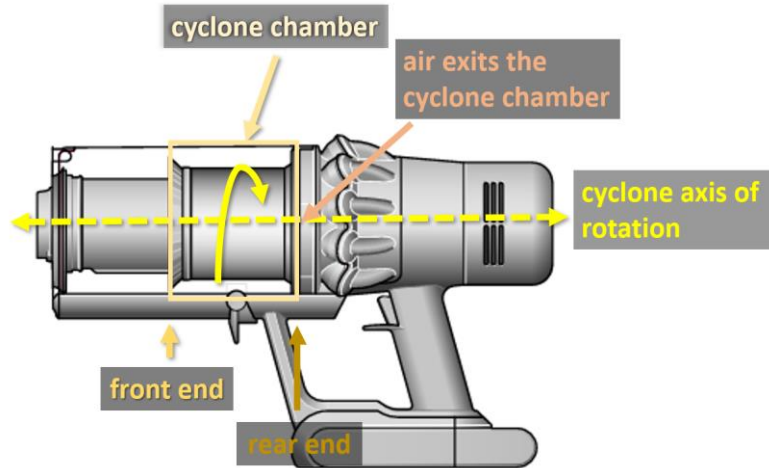
| Claim Element | Dyson V15                                                                                                                                                                                                                                                                                                                                                                                                      |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|               | <div data-bbox="932 256 1696 721"></div> <p data-bbox="690 781 1314 813">Ex. 55 at 2 (diagram of Dyson V15) (annotated).</p> <p data-bbox="690 865 1841 935">For example, the image below shows that the Dyson V15 includes a suction motor axis of rotation that is generally parallel to the cyclone axis of rotation.</p> |

**Exhibit 27**  
**U.S. Patent No. 11,903,546 – Infringement Claim Chart**

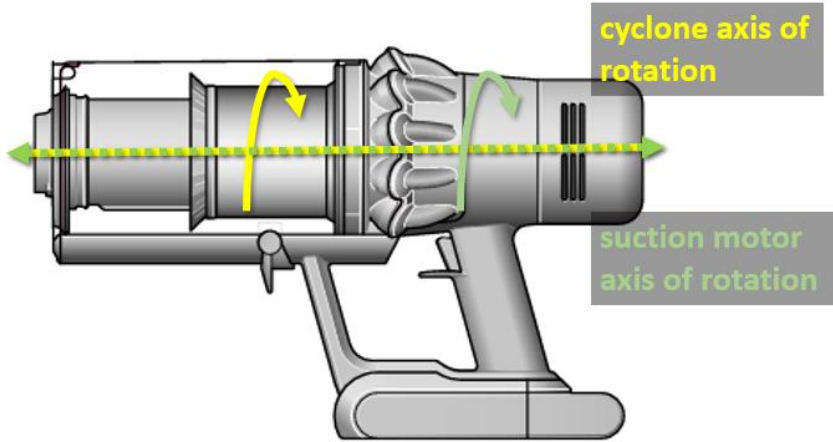
| Claim Element | Dyson V15                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|               | <div data-bbox="877 267 1705 706"></div> <p data-bbox="690 764 1314 800">Ex. 55 at 2 (diagram of Dyson V15) (annotated).</p> <p data-bbox="690 849 1816 956">For example, the image below shows that in the Dyson V15, a line that is parallel to the cyclone axis that extends through the dirt collection chamber and a location interior of a radial outer perimeter of a pre-motor filter.</p> |

**Exhibit 27**  
**U.S. Patent No. 11,903,546 – Infringement Claim Chart**

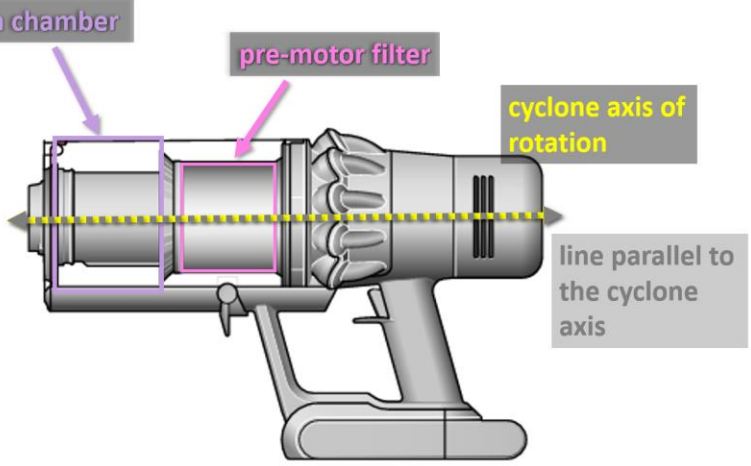
| Claim Element                                                                                                      | Dyson V15                                                                                                                                                                                                                                                                                                                |
|--------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                    |  <p>Ex. 55 at 2 (diagram of Dyson V15) (annotated).</p>                                                                                                                                                                               |
| (b) a surface cleaning head having a front end, a rear end, a dirty air inlet and a cleaning head air outlet; and, | <p>The Dyson V15 comprises a surface cleaning head having a front end, a rear end, a dirty air inlet and a cleaning head air outlet.</p> <p>For example, the images below show that the Dyson V15 includes a surface cleaning head having a front end, a rear end, a dirty air inlet and a cleaning head air outlet.</p> |

**Exhibit 27**  
**U.S. Patent No. 11,903,546 – Infringement Claim Chart**

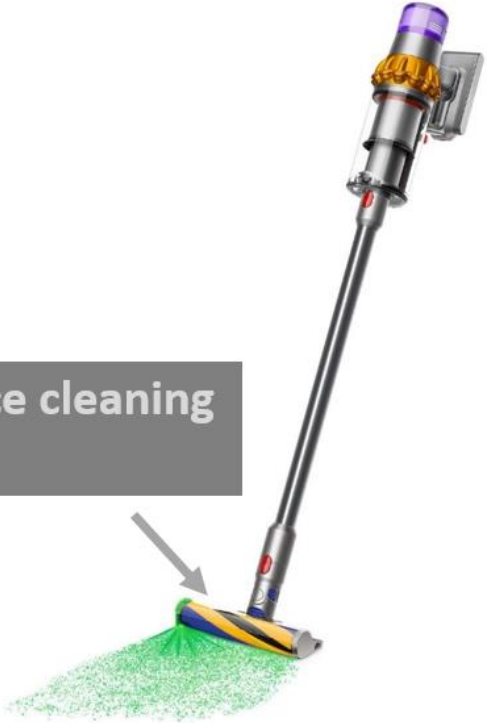
| Claim Element | Dyson V15                                                                                                                                                                                                                                                                                                                                                                                                      |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|               | <div data-bbox="991 620 1369 753" data-label="Text"><p>surface cleaning<br/>head</p></div>  <p data-bbox="695 1036 1854 1105"><a href="https://www.dyson.com/vacuum-cleaners/cordless/v15/detect-yellow">https://www.dyson.com/vacuum-cleaners/cordless/v15/detect-yellow</a> (last accessed Apr. 2, 2024) (annotated).</p> |

**Exhibit 27**  
**U.S. Patent No. 11,903,546 – Infringement Claim Chart**

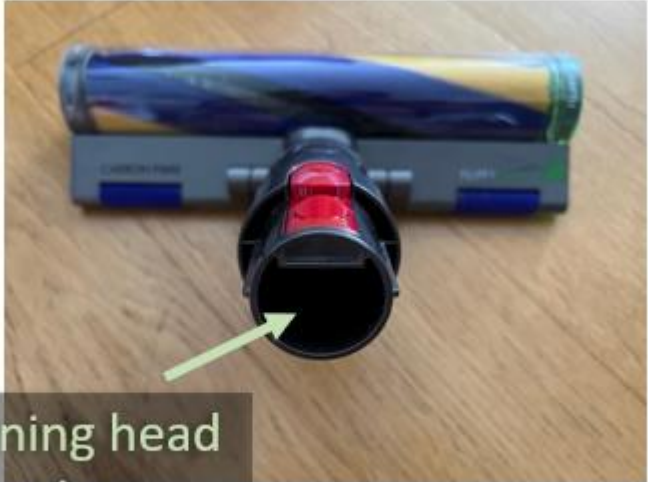
| Claim Element | Dyson V15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|               | <div data-bbox="1024 297 1667 776"><p data-bbox="913 690 1272 836">cleaning head<br/>air outlet</p></div> <div data-bbox="829 914 1764 1317"><p data-bbox="829 914 1003 971">front end</p><p data-bbox="1549 1109 1764 1166">dirt air inlet</p><p data-bbox="1413 1263 1583 1317">rear end</p></div> <p data-bbox="695 1377 1480 1412">Photos of Dyson V15 Fluffy Optic cleaning head (annotated).</p> |

**Exhibit 27**  
**U.S. Patent No. 11,903,546 – Infringement Claim Chart**

| Claim Element                                                                                                                                                                                                                                                                                                                          | Dyson V15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>(c) a rigid air flow conduit that is removably mountable to the surface cleaning head and, when attached to the hand vacuum cleaner and the surface cleaning head, extends between the cleaning head air outlet and a hand vacuum cleaner air inlet, the rigid air flow conduit having a longitudinally extending conduit axis,</p> | <p>The Dyson V15 comprises a rigid air flow conduit that is removably mountable to the surface cleaning head and, when attached to the hand vacuum cleaner and the surface cleaning head, extends between the cleaning head air outlet and a hand vacuum cleaner air inlet, the rigid air flow conduit having a longitudinally extending conduit axis.</p> <p>For example, the images below show that the Dyson V15 includes a rigid air flow conduit that is removably mountable to the surface cleaning head and, when attached to the hand vacuum cleaner and the surface cleaning head, extends between the cleaning head air outlet and a hand vacuum cleaner air inlet, the rigid air flow conduit having a longitudinally extending conduit axis.</p>  <p>The diagram illustrates the Dyson V15 stick vacuum in its assembled state. It shows a long, silver-colored rigid air flow conduit that connects the cleaning head at the bottom to the motor unit at the top. The cleaning head is shown with a green brush roll and a green air outlet. The motor unit is shown with a blue air inlet. Labels with arrows point to the following components: 'hand vacuum cleaner' (blue arrow), 'hand vacuum cleaner air inlet' (yellow arrow), 'rigid air flow conduit extends between' (purple arrow), 'cleaning head air outlet' (green arrow), and 'surface cleaning head' (grey arrow).</p> |

**Exhibit 27**  
**U.S. Patent No. 11,903,546 – Infringement Claim Chart**

| Claim Element                                                                                                                                                       | Dyson V15                                                                                                                                                                                                                                                                                                                                                                                                             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                     |  <p><a href="https://www.dyson.com/vacuum-cleaners/cordless/v15/detect-yellow">https://www.dyson.com/vacuum-cleaners/cordless/v15/detect-yellow</a> (last accessed Apr. 2, 2024) (annotated).</p>                                                                                                                                  |
| <p>wherein the hand vacuum cleaner is removably mountable to a downstream end of the rigid air flow conduit and, when the hand vacuum cleaner is mounted to the</p> | <p>The hand vacuum cleaner of the Dyson V15 is removably mountable to a downstream end of the rigid air flow conduit and, when the hand vacuum cleaner is mounted to the downstream end of the rigid air flow conduit, the handle is a driving handle for the surface cleaning apparatus and the longitudinally extending conduit axis of the rigid air flow conduit is parallel to the cyclone axis of rotation.</p> |

**Exhibit 27**  
**U.S. Patent No. 11,903,546 – Infringement Claim Chart**

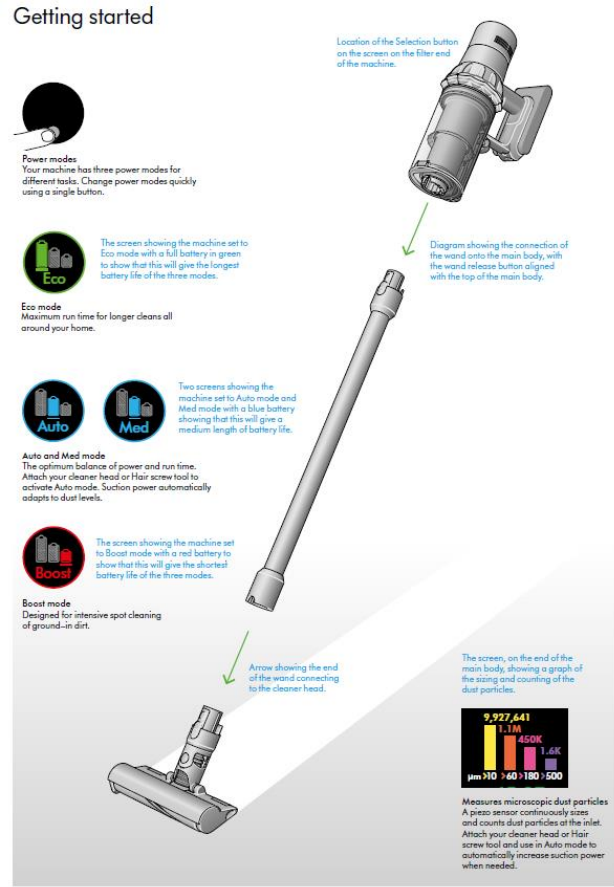
| Claim Element                                                                                                                                                                                                                                       | Dyson V15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>downstream end of the rigid air flow conduit, the handle is a driving handle for the surface cleaning apparatus and the longitudinally extending conduit axis of the rigid air flow conduit is parallel to the cyclone axis of rotation, and</p> | <p>For example, the image below shows that the Dyson V15 hand vacuum cleaner is removably mountable to a downstream end of the rigid air flow conduit.</p>  <p>The diagram, titled "Getting started", illustrates the assembly and power modes of the Dyson V15. It shows the main body, a long rigid air flow conduit, and a cleaner head. The main body has a screen at the filter end. The diagram shows the connection of the wand to the main body, with the wand release button aligned with the top of the main body. The diagram also shows the connection of the wand to the cleaner head. The diagram includes a bar chart showing the dust particle count and size distribution. The bar chart shows the dust particle count for three modes: Eco, Auto, and Boost. The Eco mode shows a count of 9,927,441 particles. The Auto mode shows a count of 1.1M particles. The Boost mode shows a count of 450K particles. The bar chart also shows the dust particle size distribution for three modes: Eco, Auto, and Boost. The Eco mode shows a distribution of particles between 10 and 500 micrometers. The Auto mode shows a distribution of particles between 10 and 500 micrometers. The Boost mode shows a distribution of particles between 10 and 500 micrometers.</p> <p><b>Getting started</b></p> <p><b>Power modes</b><br/>Your machine has three power modes for different tasks. Change power modes quickly using a single button.</p> <p><b>Eco mode</b><br/>Maximum run time for longer cleans all around your home.</p> <p><b>Auto and Med mode</b><br/>The optimum balance of power and run time. Attach your cleaner head or Hair screw tool to activate Auto mode. Suction power automatically adapts to dust levels.</p> <p><b>Boost mode</b><br/>Designed for intensive spot cleaning of ground-in dirt.</p> <p><b>Diagram showing the connection of the wand into the main body, with the wand release button aligned with the top of the main body.</b></p> <p><b>Arrow showing the end of the wand connecting to the cleaner head.</b></p> <p><b>The screen, on the end of the main body, showing a graph of the dust particle count.</b></p> <p><b>Measures microscopic dust particles</b><br/>A piezo sensor continuously sizes and counts dust particles at the inlet. Attach your cleaner head or Hair screw tool and use in Auto mode to automatically increase suction power when needed.</p> <p>Ex. 55 (diagram of Dyson V15) at 3.</p> |

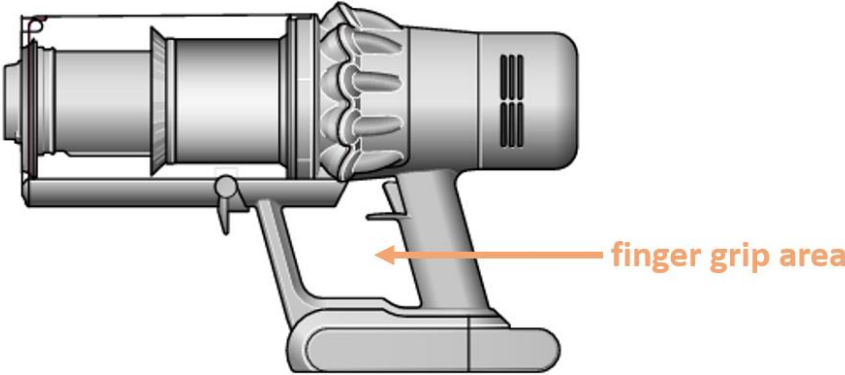
**Exhibit 27**  
**U.S. Patent No. 11,903,546 – Infringement Claim Chart**

| Claim Element | Dyson V15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|               | <p data-bbox="695 289 1892 428">For example, the images below show that when the hand vacuum cleaner of the Dyson V15 is mounted to the downstream end of the rigid air flow conduit, the handle is a driving handle for the surface cleaning apparatus and the longitudinally extending conduit axis of the rigid air flow conduit is parallel to the cyclone axis of rotation.</p> <div data-bbox="814 509 1745 1094"><p data-bbox="814 509 1150 558">pistol grip handle</p>A photograph of a person using a Dyson V15 cordless stick vacuum cleaner. The person is standing on a light-colored floor, and the vacuum is positioned vertically. An orange arrow points from the text 'pistol grip handle' to the handle of the vacuum. The vacuum has a purple and yellow motor unit at the top and a long, silver, telescopic tube. The person is wearing grey pants and light blue shoes. In the background, there are white stairs and a wooden cabinet.</div> <p data-bbox="695 1159 1850 1224"><a href="https://www.dyson.com/vacuum-cleaners/cordless/v15/detect-yellow">https://www.dyson.com/vacuum-cleaners/cordless/v15/detect-yellow</a> (last accessed Apr. 2, 2024) (annotated).</p> |

**Exhibit 27**  
**U.S. Patent No. 11,903,546 – Infringement Claim Chart**

| Claim Element                                                                                                                      | Dyson V15                                                                                                                                                                                                                                                                                                                                   |
|------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                    |  <p><a href="https://www.dyson.com/vacuum-cleaners/cordless/v15/detect-yellow">https://www.dyson.com/vacuum-cleaners/cordless/v15/detect-yellow</a> (last accessed Apr. 2, 2024) (annotated).</p>                                                        |
| <p>wherein a finger grip area is provided at a location that is forward of the pistol grip handle and rearward of the cyclone.</p> | <p>The Dyson V15 includes a finger grip area is provided at a location that is forward of the pistol grip handle and rearward of the cyclone.</p> <p>For example, the image below shows that the Dyson V15 includes a finger grip area is provided at a location that is forward of the pistol grip handle and rearward of the cyclone.</p> |

**Exhibit 27**  
**U.S. Patent No. 11,903,546 – Infringement Claim Chart**

| Claim Element | Dyson V15                                                                                                                                                                                                                                                                                                                                                |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|               | <div data-bbox="877 277 1717 649"></div> <p data-bbox="695 732 1854 800"><a href="https://www.dyson.com/vacuum-cleaners/cordless/v15/detect-yellow">https://www.dyson.com/vacuum-cleaners/cordless/v15/detect-yellow</a> (last accessed Apr. 2, 2024) (annotated).</p> |