

Exhibit A-2
Claim Chart Comparing the Dyson Gen5 line to U.S. Patent No. 10,117,550

The Dyson Gen5 line (the “Gen5 Accused Products”) include each and every limitation of (at least) each of claims 1, 4, 6-14, 17-24, 28 of U.S. Patent No. 10,117,550 (the “’550 Patent” and the “Asserted Claims,” respectively). The limitations of the Asserted Claims of the Asserted Patent are satisfied literally by the Gen5 Accused Products, although SharkNinja reserves the right to contend that any claim element found not to be literally embodied by the Gen5 Accused Products is present under the doctrine of equivalents because there are no substantial differences for each claim element, and the elements of the Gen5 Accused Products perform substantially the same function, in substantially the same way, to achieve substantially the same result as the claimed invention. SharkNinja reserves the right to amend these Infringement Contention charts or assert new theories of infringement, including without limitation by amending or asserting literal infringement or the doctrine of equivalents, in light of the Court’s claim construction or subsequent discovery. SharkNinja reserves the right to supplement, modify, or amend the following preliminary claim charts as discovery continues and in accordance with subsequent events in the litigation.

SharkNinja’s decision to assert claims 1, 4, 6-14, 17-24, 28 of the ’550 Patent, but not other claims is not a concession that the Gen5 Accused Products do not infringe other unasserted claims.

An inspection of physical samples of the Gen5 Accused Products, along with reviews of Dyson product literature, demonstrates infringement of each and every claim below but a physical sample is impossible to include in this chart; SharkNinja explicitly reserves the right to rely on physical samples, other photos and videos of same, the boxes and manuals included with the Gen5 Accused Products in any demonstration of infringement, including any demonstration of the presence of any of the limitations in the chart below. Discovery is just beginning; SharkNinja further explicitly reserves the right and ability to rely on materials yet to be produced by Dyson (or third parties) in order to demonstrate infringement.

SharkNinja reserves the right to rely on the entirety of the material cited in this chart to show infringement. Citations presented for one claim limitation are expressly incorporated by reference into all other limitations for that claim as well as all limitations of all claims on which that claim depends.

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<u>U.S. Patent No. 10,117,550</u>	
<u>Claim Element</u>	<u>Dyson Gen5 line</u>
1[Pre.]. A surface cleaning apparatus comprising:	To the extent the preamble is limiting, the Dyson Gen5 line is a surface cleaning apparatus. For example, the below images show a surface cleaning apparatus.  https://www.dyson.com/vacuum-cleaners/cordless/gen5/detect-hepa-purple-iron#technology

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<https://www.dyson.com/vacuum-cleaners/cordless/gen5/detect-hepa-purple-iron#technology>

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	 https://www.dyson.com/vacuum-cleaners/cordless/gen5/detect-hepa-purple-iron#technology
1[a]. a hand vacuum cleaner comprising:	The Dyson Gen5 line includes a hand vacuum cleaner. For example, the below images show a hand vacuum cleaner. 

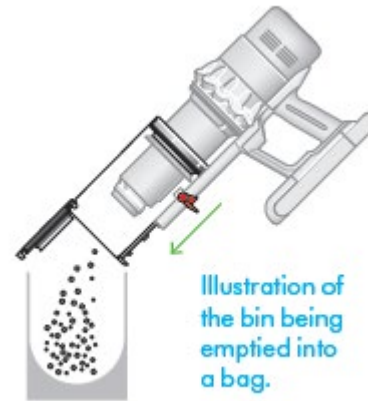
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	https://www.dyson.com/vacuum-cleaners/cordless/gen5/detect-hepa-purple-iron#technology  https://www.dyson.com/vacuum-cleaners/cordless/gen5/detect-hepa-purple-iron#technology (annotated).
1[a][i]. a hand vacuum cleaner body comprising a bottom, a handle, the hand vacuum cleaner body housing a suction motor and fan assembly, the suction motor and fan assembly having a suction motor axis of rotation, the handle having a hand grip portion that extends upwardly and forwardly when the hand vacuum cleaner body is positioned with the bottom on a horizontal surface; and,	The Dyson Gen5 line includes a hand vacuum cleaner body comprising a bottom, a handle, the hand vacuum cleaner body housing a suction motor and fan assembly, the suction motor and fan assembly having a suction motor axis of rotation, the handle having a hand grip portion that extends upwardly and forwardly when the hand vacuum cleaner body is positioned with the bottom on a horizontal surface. For example, the below images show a hand vacuum cleaner body comprising a bottom, a handle, the hand vacuum cleaner body housing a suction motor and fan assembly, the suction motor and fan assembly having a suction motor axis of rotation, the handle having a hand grip portion that extends upwardly and forwardly when the hand vacuum cleaner body is positioned with the bottom on a horizontal surface.

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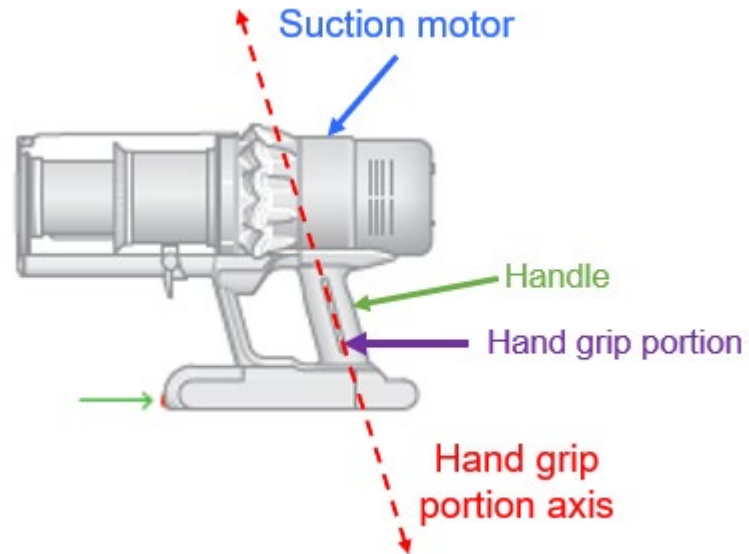


<https://www.dyson.com/vacuum-cleaners/cordless/gen5/detect-absolute-hepa-prussian-blue> (annotated).



https://www.dyson.com/content/dam/dyson/maintenance/user-guides/en_US/vacuumcleaners/cordlessstickvacuums/sv23/447329-01.pdf (annotated).

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https://www.dyson.com/content/dam/dyson/maintenance/user-guides/en_US/vacuumcleaners/cordlessstickvacuums/sv23/447329-01.pdf (annotated).

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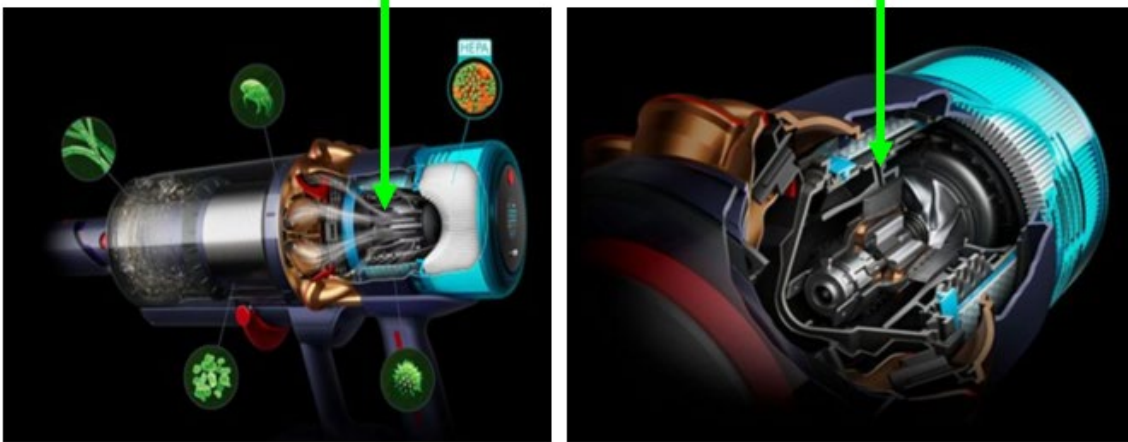
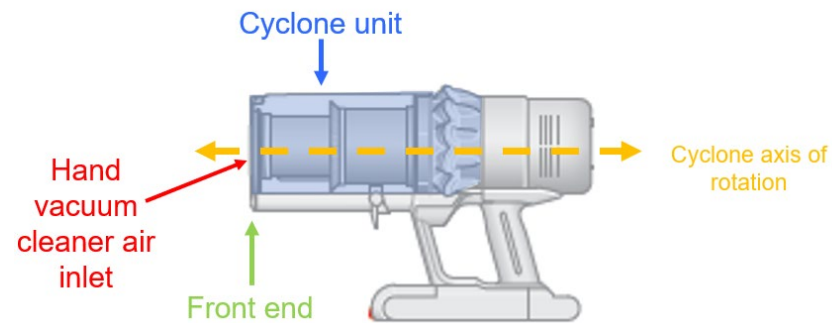
	Suction motor  https://www.dyson.com/vacuum-cleaners/cordless/gen5/detect-absolute-hepa-prussian-blue# (annotated).
1[a][ii]. a cyclone unit provided at a front end of the hand vacuum cleaner body, the cyclone unit comprising a cyclone chamber having a cyclone axis of rotation, a front end of the cyclone unit having a hand vacuum cleaner air inlet and a rear end wherein the hand vacuum cleaner air inlet is provided in a centre of the front end of the cyclone unit; and,	The Dyson Gen5 line includes a cyclone unit provided at a front end of the hand vacuum cleaner body, the cyclone unit comprising a cyclone chamber having a cyclone axis of rotation, a front end of the cyclone unit having a hand vacuum cleaner air inlet and a rear end wherein the hand vacuum cleaner air inlet is provided in a centre of the front end of the cyclone unit. For example, the below images show a cyclone unit provided at a front end of the hand vacuum cleaner body, the cyclone unit comprising a cyclone chamber having a cyclone axis of rotation. 

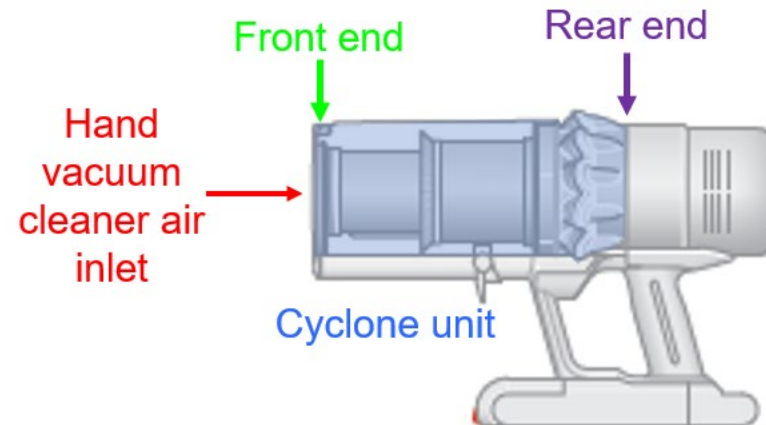
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<https://www.dyson.com/vacuum-cleaners/cordless/gen5/detect-absolute-hepa-prussian-blue> (annotated).



https://www.dyson.com/content/dam/dyson/maintenance/user-guides/en_US/vacuumcleaners/cordlessstickvacuums/sv23/447329-01.pdf (annotated).

For example, the below images show that the cyclone unit has a front end having a hand vacuum cleaner air inlet and a rear end wherein the hand vacuum cleaner air inlet is provided in a centre of the front end of the cyclone unit.



https://www.dyson.com/content/dam/dyson/maintenance/user-guides/en_US/vacuumcleaners/cordlessstickvacuums/sv23/447329-01.pdf (annotated).

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	Centrally provided air inlet Front end of cyclone unit Photograph of Dyson Gen5™ (annotated).
1[a][iii]. an electrical connector provided on the front end of the cyclone unit wherein electrical cables extend rearwardly from the electrical connector through a central portion of the cyclone unit toward the suction motor and fan assembly,	The Dyson Gen5 line includes an electrical connector provided on the front end of the cyclone unit wherein electrical cables extend rearwardly from the electrical connector through a central portion of the cyclone unit toward the suction motor and fan assembly. For example, the below images show an electrical connector provided on the front end of the cyclone unit wherein electrical cables extend rearwardly from the electrical connector through a central portion of the cyclone unit toward the suction motor and fan assembly.

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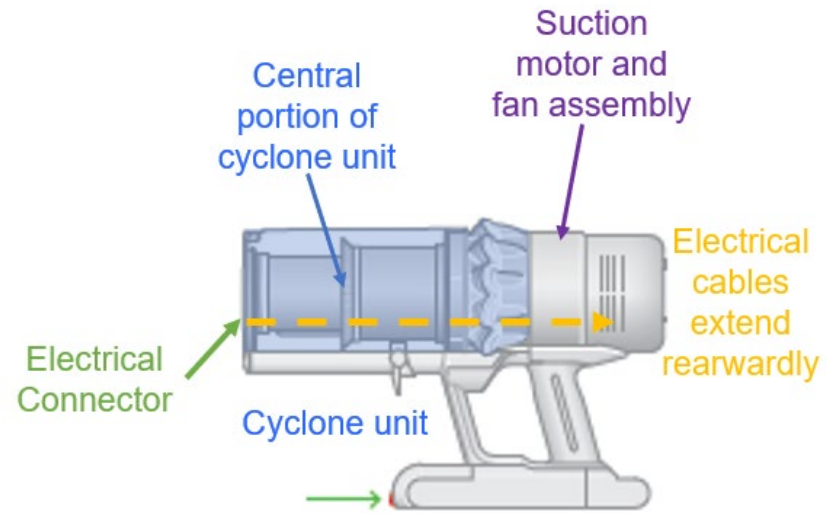
Front end
of cyclone
unit

Electrical
connector



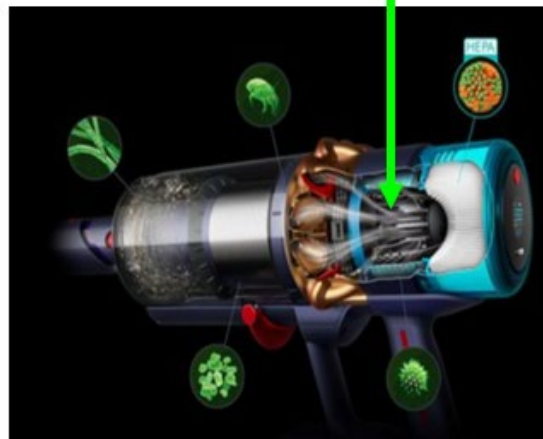
Photograph of Dyson Gen5™ (annotated).

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https://www.dyson.com/content/dam/dyson/maintenance/user-guides/en_US/vacuumcleaners/cordlessstickvacuums/sv23/447329-01.pdf (annotated).

Suction motor



Suction motor

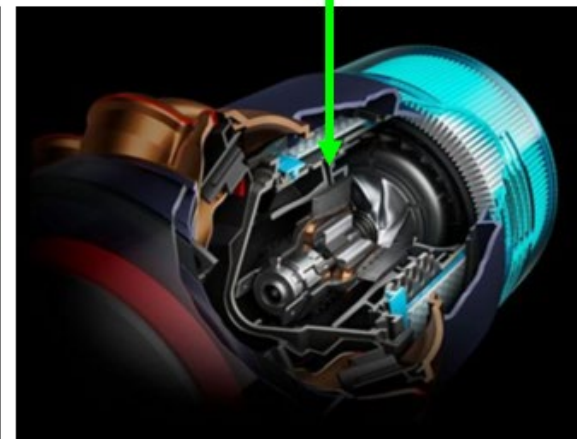


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	https://www.dyson.com/vacuum-cleaners/cordless/gen5/detect-absolute-hepa-prussian-blue# (annotated).
1[b]. a surface cleaning head having a front end, a rear end, a dirt air inlet and a cleaning head air outlet; and,	The Dyson Gen5 line includes a surface cleaning head having a front end, a rear end, a dirt air inlet and a cleaning head air outlet. For example, the below images show a surface cleaning head having a front end, a rear end, a dirt air inlet and a cleaning head air outlet.  https://www.dyson.com/vacuum-cleaners/cordless/gen5/detect-hepa-purple-iron#technology

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<https://www.dyson.com/vacuum-cleaners/cordless/gen5/detect-hepa-purple-iron#technology>

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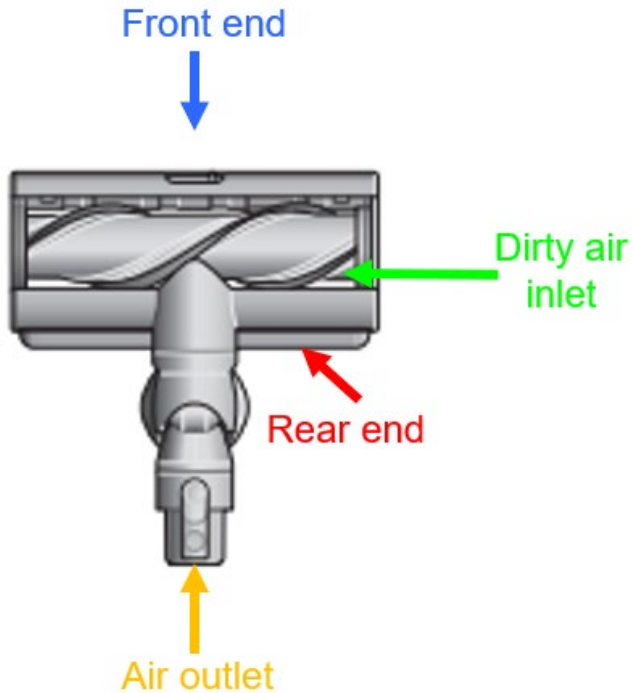
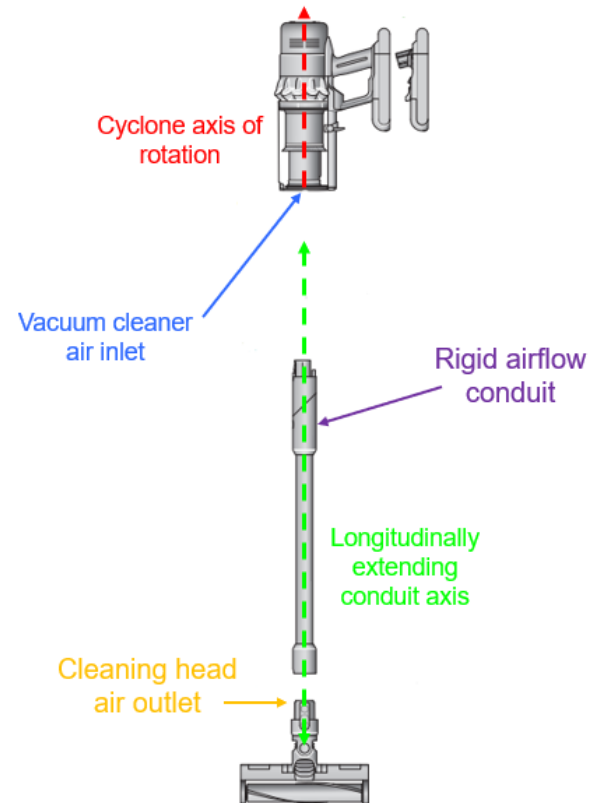
	 The diagram shows a top-down view of the cleaning head of a cordless stick vacuum. A blue arrow labeled 'Front end' points to the top of the head. A green arrow labeled 'Dirty air inlet' points to the side of the head. A red arrow labeled 'Rear end' points to the bottom of the head. A yellow arrow labeled 'Air outlet' points to the bottom of the head. The diagram illustrates the internal cyclone and the air flow path. https://www.dyson.com/content/dam/dyson/maintenance/user-guides/en_US/vacuumcleaners/cordlessstickvacuums/sv23/447329-01.pdf (annotated).
1[c]. a rigid air flow conduit extendable between the cleaning head air outlet and the hand vacuum cleaner air inlet, the rigid air flow conduit having a longitudinally extending conduit axis which is parallel to the cyclone axis of rotation when the rigid air flow conduit extends between the cleaning head air outlet and the hand vacuum cleaner air inlet,	The Dyson Gen5 line includes a rigid air flow conduit extendable between the cleaning head air outlet and the hand vacuum cleaner air inlet, the rigid air flow conduit having a longitudinally extending conduit axis which is parallel to the cyclone axis of rotation when the rigid air flow conduit extends between the cleaning head air outlet and the hand vacuum cleaner air inlet. For example, the below images show a rigid air flow conduit extendable between the cleaning head air outlet and the hand vacuum cleaner air inlet, the rigid air flow conduit having a longitudinally extending conduit axis which is parallel to the cyclone axis of

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rotation when the rigid air flow conduit extends between the cleaning head air outlet and the hand vacuum cleaner air inlet.



https://www.dyson.com/content/dam/dyson/maintenance/user-guides/en_US/vacuumcleaners/cordlessstickvacuums/sv23/447329-01.pdf (annotated).

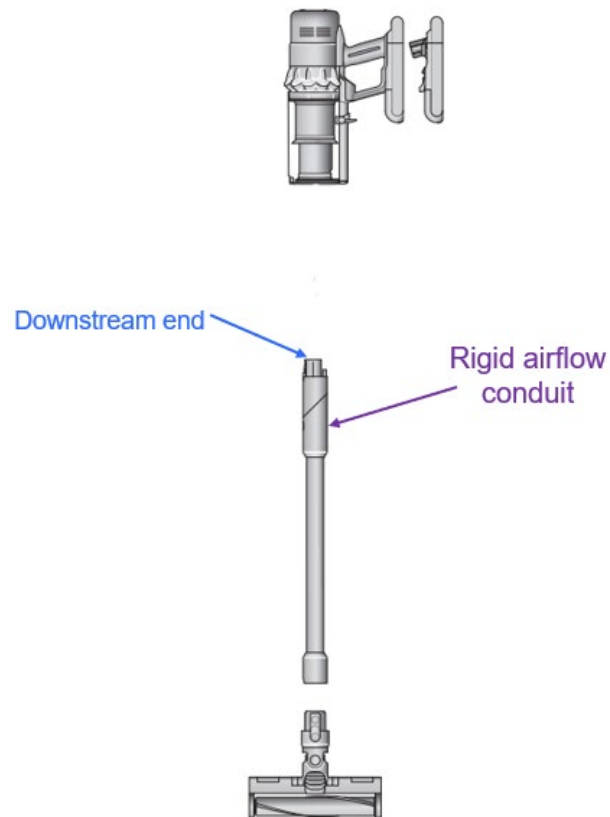
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	 https://www.dyson.com/vacuum-cleaners/cordless/gen5/detect-hepa-purple-iron#technology (annotated).
1[d]. wherein the hand vacuum cleaner is removably mountable to a downstream end of the rigid air flow conduit and when the hand vacuum cleaner is mounted to the downstream	The Dyson Gen5 line includes a surface cleaning apparatus 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 downstream end of the rigid air flow conduit, and the rigid air flow conduit extends between the surface cleaning head and the hand vacuum cleaner, the handle is a driving handle for the surface cleaning apparatus.

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end of the rigid air flow conduit, and the rigid air flow conduit extends between the surface cleaning head and the hand vacuum cleaner, the handle is a driving handle for the surface cleaning apparatus.

For example, the below images show a surface cleaning apparatus, 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 downstream end of the rigid air flow conduit, and the rigid air flow conduit extends between the surface cleaning head and the hand vacuum cleaner, the handle is a driving handle for the surface cleaning apparatus.

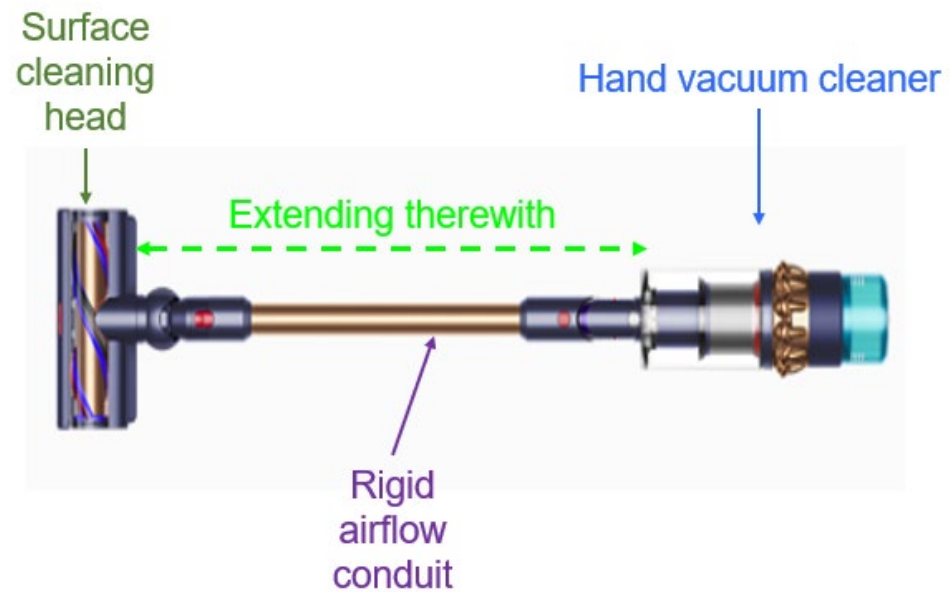


https://www.dyson.com/content/dam/dyson/maintenance/user-guides/en_US/vacuumcleaners/cordlessstickvacuums/sv23/447329-01.pdf (annotated).

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Photograph of Dyson Gen5™.



<https://www.dyson.com/vacuum-cleaners/cordless/gen5/detect-absolute-hepa-prussian-blue> (annotated).

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	 https://www.dyson.com/vacuum-cleaners/cordless/gen5/detect-hepa-purple-iron#technology
4. The surface cleaning apparatus of claim 2 wherein the suction motor axis of rotation is generally parallel to the longitudinally extending conduit axis.	The Dyson Gen5 line includes a surface cleaning apparatus wherein the suction motor axis of rotation is generally parallel to the longitudinally extending conduit axis. For example, the below images show a surface cleaning apparatus wherein the suction motor axis of rotation is generally parallel to the longitudinally extending conduit axis.

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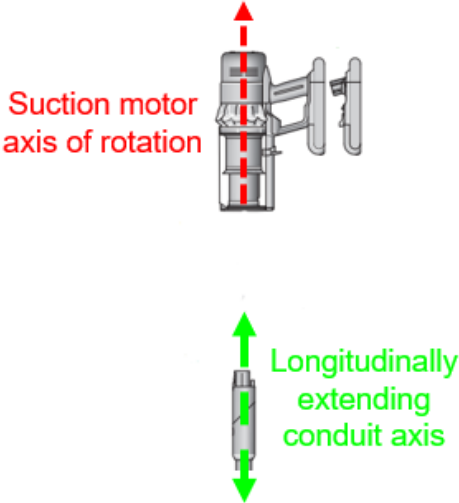
	 https://www.dyson.com/content/dam/dyson/maintenance/user-guides/en_US/vacuumcleaners/cordlessstickvacuums/sv23/447329-01.pdf (annotated).
6. The surface cleaning apparatus of claim 1 wherein the suction motor axis of rotation is generally parallel to the longitudinally extending conduit axis.	The Dyson Gen5 line includes a surface cleaning apparatus wherein the suction motor axis of rotation is generally parallel to the longitudinally extending conduit axis. <i>See Claims 1, 4.</i>
7. The surface cleaning apparatus of claim 1 wherein the cyclone unit has an outlet conduit and the outlet conduit extends in a direction that is generally parallel to the cyclone axis of rotation.	The Dyson Gen5 line includes a surface cleaning apparatus wherein the cyclone unit has an outlet conduit and the outlet conduit extends in a direction that is generally parallel to the cyclone axis of rotation. For example, the below images show a surface cleaning apparatus wherein the cyclone unit has an outlet conduit and the outlet conduit extends in a direction that is generally parallel to the cyclone axis of rotation.

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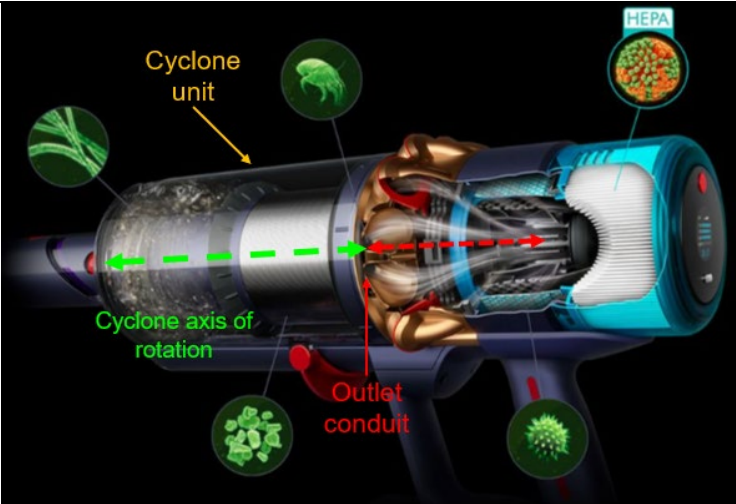
	 https://www.dyson.com/vacuum-cleaners/cordless/gen5/detect-absolute-hepa-prussian-blue (annotated).
8. The surface cleaning apparatus of claim 1 wherein the rigid air flow conduit is removably attachable to the hand vacuum cleaner air inlet.	The Dyson Gen5 line includes a surface cleaning apparatus wherein the rigid air flow conduit is removably attachable to the hand vacuum cleaner air inlet. For example, the below images show a surface cleaning apparatus wherein the rigid air flow conduit is removably attachable to the hand vacuum cleaner air inlet.

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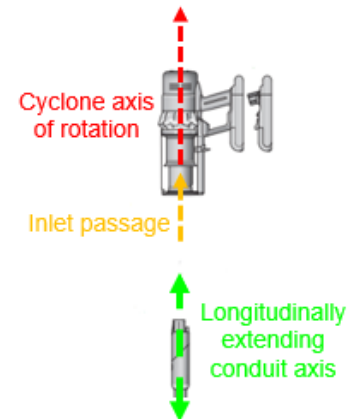
	Photograph of Dyson Gen5™.
9. The surface cleaning apparatus of claim 8 wherein the hand vacuum cleaner air inlet comprises a hand vacuum cleaner inlet passage that is generally parallel to the longitudinally extending conduit axis and the cyclone axis of rotation, the hand vacuum cleaner inlet passage having an inlet end and an outlet end, the outlet end communicating with a cyclone chamber air inlet and the electrical cables extend rearwardly adjacent the hand vacuum cleaner inlet passage.	The Dyson Gen5 line includes a surface cleaning apparatus wherein the hand vacuum cleaner air inlet comprises a hand vacuum cleaner inlet passage that is generally parallel to the longitudinally extending conduit axis and the cyclone axis of rotation, the hand vacuum cleaner inlet passage having an inlet end and an outlet end, the outlet end communicating with a cyclone chamber air inlet and the electrical cables extend rearwardly adjacent the hand vacuum cleaner inlet passage. For example, the below images show a surface cleaning apparatus wherein the hand vacuum cleaner air inlet comprises a hand vacuum cleaner inlet passage that is generally parallel to the longitudinally extending conduit axis and the cyclone axis of rotation.

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Vacuum
cleaner air
inlet/Inlet
passage



Photograph of Dyson Gen5™ (annotated).

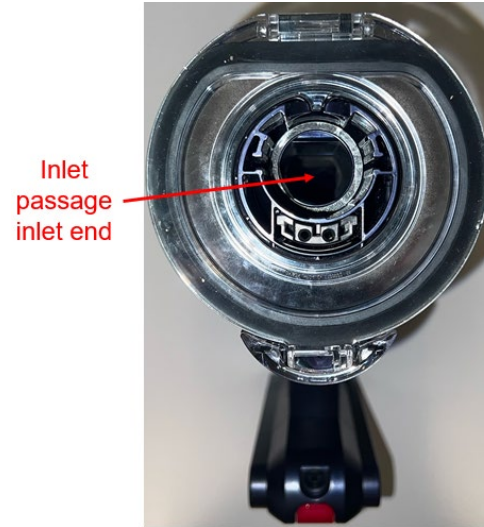


https://www.dyson.com/content/dam/dyson/maintenance/user-guides/en_US/vacuumcleaners/cordlessstickvacuums/sv23/447329-01.pdf (annotated).

For example, the below images show the hand vacuum cleaner inlet passage having an inlet end and an outlet end, the outlet end communicating with a cyclone chamber air inlet

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and the electrical cables extend rearwardly adjacent the hand vacuum cleaner inlet passage.



Photograph of Dyson Gen5™ (annotated).



Photograph of Dyson Gen5™ (annotated).

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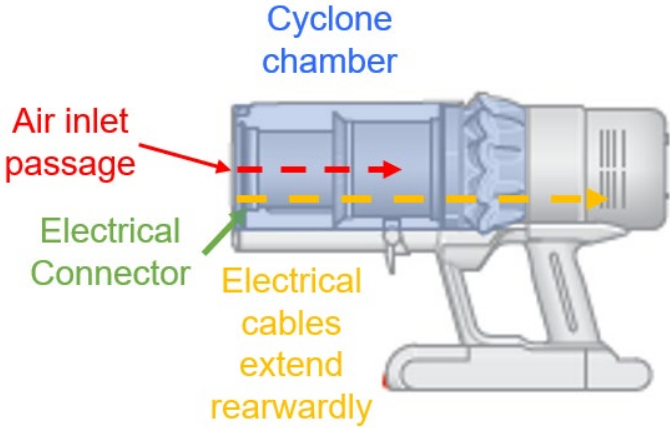
	 The diagram illustrates the internal components of a Dyson Gen5 cordless stick vacuum. A red dashed arrow labeled 'Air inlet passage' points into the 'Cyclone chamber' (blue). A green arrow labeled 'Electrical Connector' points to the connection point. Yellow dashed arrows labeled 'Electrical cables extend rearwardly' show the path of the cables from the motor back to the handle. The vacuum is shown in a side profile with its handle and motor unit. https://www.dyson.com/content/dam/dyson/maintenance/user-guides/en_US/vacuumcleaners/cordlessstickvacuums/sv23/447329-01.pdf (annotated).
10. The surface cleaning apparatus of claim 9 wherein the cyclone chamber air inlet comprises a tangential air inlet provided at the outlet end of the hand vacuum cleaner inlet passage.	The Dyson Gen5 line includes a surface cleaning apparatus wherein the cyclone chamber air inlet comprises a tangential air inlet provided at the outlet end of the hand vacuum cleaner inlet passage. For example the below images show a surface cleaning apparatus wherein the cyclone chamber air inlet comprises a tangential air inlet provided at the outlet end of the hand vacuum cleaner inlet passage.

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	Photograph of Dyson Gen5™ (annotated).
11. The surface cleaning apparatus of claim 9 wherein the hand vacuum cleaner inlet passage is coaxial with the longitudinally extending conduit axis.	The Dyson Gen5 line includes a surface cleaning apparatus wherein the hand vacuum cleaner inlet passage is coaxial with the longitudinally extending conduit axis. For example, the below images show a surface cleaning apparatus wherein the hand vacuum cleaner inlet passage is coaxial with the longitudinally extending conduit axis.

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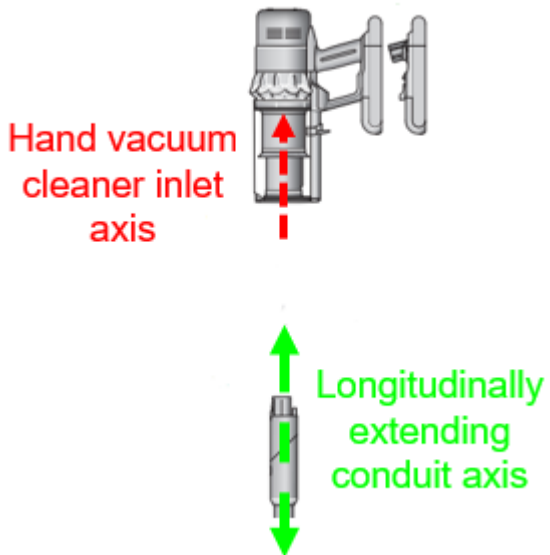
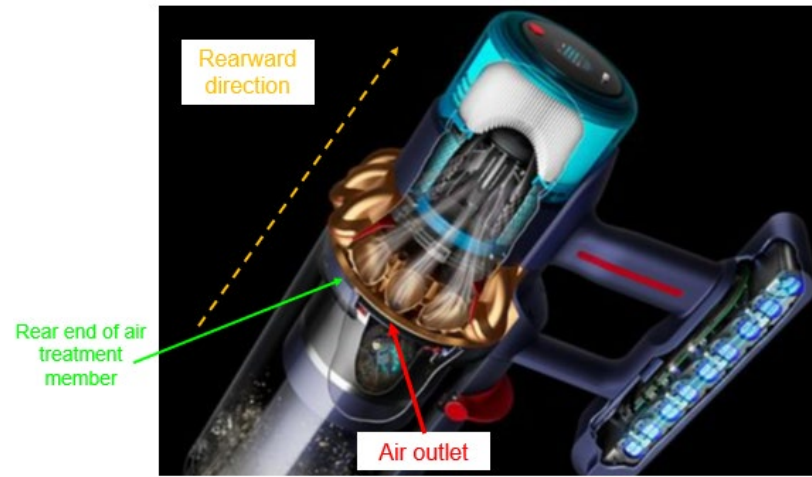
	 Hand vacuum cleaner inlet axis Longitudinally extending conduit axis https://www.dyson.com/content/dam/dyson/maintenance/user-guides/en_US/vacuumcleaners/cordlessstickvacuums/sv23/447329-01.pdf (annotated).
12[Pre.]. A surface cleaning apparatus comprising:	To the extent the preamble is limiting, the Dyson Gen5 line is a surface cleaning apparatus. <i>See</i> Claim 1[Pre.].
12[a]. hand vacuum cleaner comprising:	The Dyson Gen5 line includes a hand vacuum cleaner. <i>See</i> Claim 1[a].
12[a][i]. a hand vacuum cleaner body comprising a bottom, a handle, the hand vacuum cleaner body housing a suction motor and fan assembly, the	The Dyson Gen5 line includes a hand vacuum cleaner body comprising a bottom, a handle, the hand vacuum cleaner body housing a suction motor and fan assembly, the suction motor and fan assembly having a suction motor axis of rotation. <i>See</i> Claim 1[a][i].

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suction motor and fan assembly having a suction motor axis of rotation; and,	
12[a][ii]. an air treatment member provided at a front end of the hand vacuum cleaner body, the air treatment member having a front end of the air treatment member and a rear end, a hand vacuum cleaner air inlet and the rear end having an air treatment member air outlet whereby air exits the air treatment member in a rearward direction, wherein the hand vacuum cleaner air inlet is provided in a centre of the front end of the air treatment member; and,	The Dyson Gen5 line includes an air treatment member provided at a front end of the hand vacuum cleaner body, the air treatment member having a front end of the air treatment member and a rear end, a hand vacuum cleaner air inlet and the rear end having an air treatment member air outlet whereby air exits the air treatment member in a rearward direction, wherein the hand vacuum cleaner air inlet is provided in a centre of the front end of the air treatment member. For example, the below images show an air treatment member provided at a front end of the hand vacuum cleaner body, the air treatment member having a front end of the air treatment member and a rear end, a hand vacuum cleaner air inlet. The diagram shows a side view of a hand vacuum cleaner. A blue rectangular component, labeled 'Air treatment member' in blue, is positioned at the front of the device. A red arrow points to the front face of this component, labeled 'Hand vacuum cleaner air inlet' in red. Above the front face, a purple arrow points to the top edge, labeled 'Front end/Front end of air treatment member' in purple. To the right, a green arrow points to the back edge of the blue component, labeled 'Rear end/Rear end of air treatment member' in green. The vacuum cleaner body is shown in grey, with a handle and a motor unit at the rear. https://www.dyson.com/content/dam/dyson/maintenance/user-guides/en_US/vacuumcleaners/cordlessstickvacuums/sv23/447329-01.pdf (annotated).

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For example the below images show the air treatment member having a rear end having an air treatment member air outlet whereby air exits the air treatment member in a rearward direction.



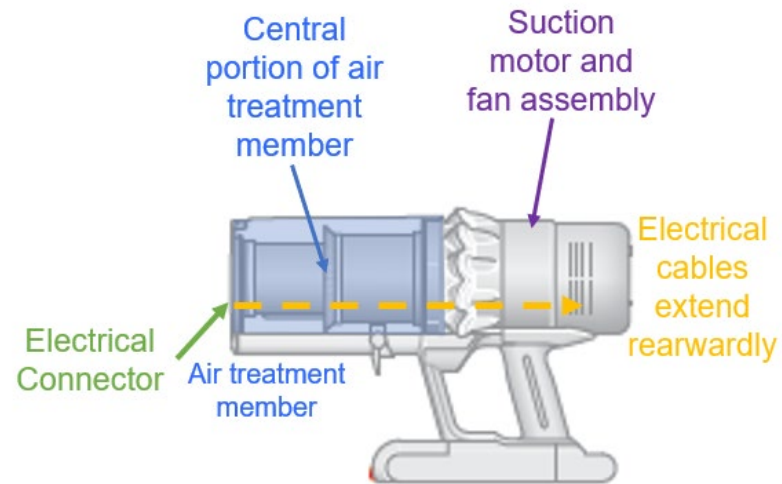
<https://www.dyson.com/vacuum-cleaners/cordless/gen5/outsize-hepa-absolute-prussian-blue> (annotated).

For example, the below images show that the air treatment member has an air inlet of the hand vacuum cleaner that is provided in a centre of the front end of the air treatment member.

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	Air inlet is provided in a centre of the front end of the air treatment member Front end of air treatment member  Photograph of Dyson Gen5™ (annotated).
12[a][iii]. an electrical connector provided on the front end of the air treatment member wherein electrical cables extend rearwardly from the electrical connector through a central portion of the air treatment member toward the suction motor and fan assembly,	The Dyson Gen5 line includes an electrical connector provided on the front end of the air treatment member wherein electrical cables extend rearwardly from the electrical connector through a central portion of the air treatment member toward the suction motor and fan assembly. For example, the below images show an electrical connector provided on the front end of the air treatment member wherein electrical cables extend rearwardly from the electrical connector through a central portion of the air treatment member toward the suction motor and fan assembly.

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https://www.dyson.com/content/dam/dyson/maintenance/user-guides/en_US/vacuumcleaners/cordlessstickvacuums/sv23/447329-01.pdf (annotated).

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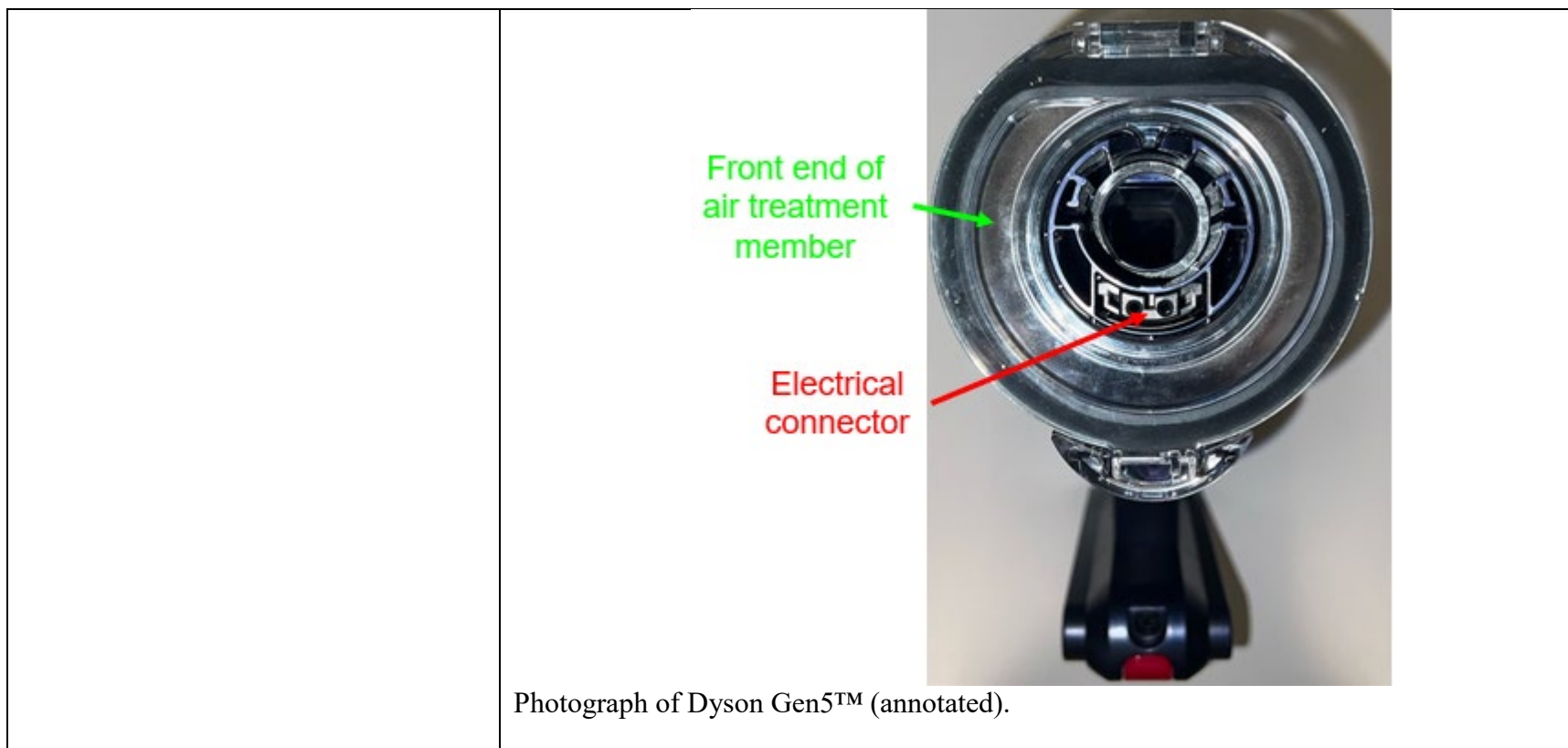


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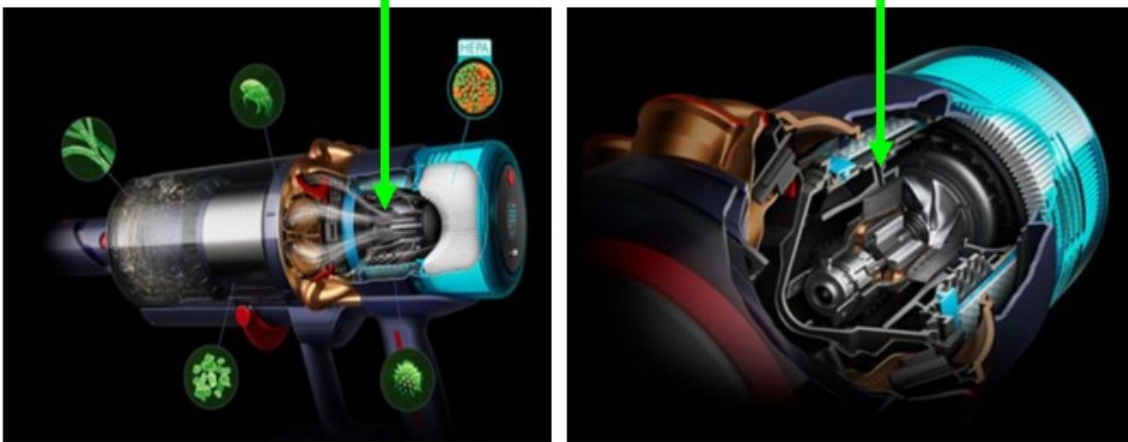
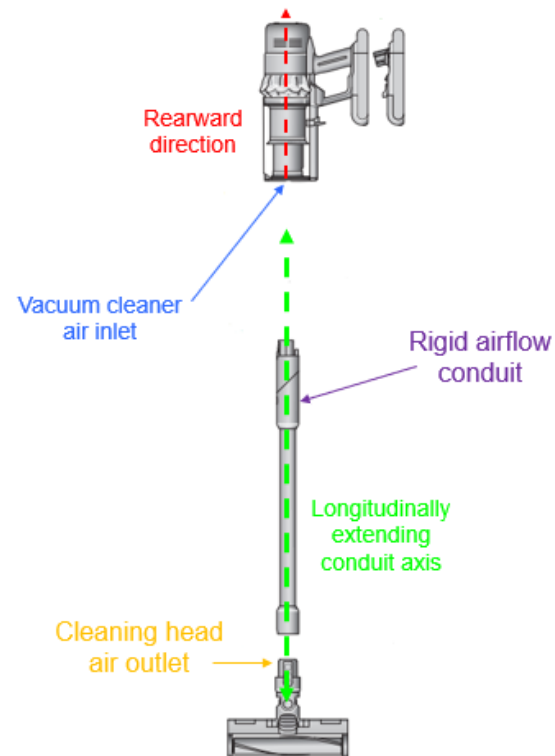
	Suction motor  https://www.dyson.com/vacuum-cleaners/cordless/gen5/detect-absolute-hepa-prussian-blue# (annotated).
12[b]. a surface cleaning head having a front end, a rear end, a dirt air inlet and a cleaning head air outlet; and,	The Dyson Gen5 line includes a surface cleaning head having a front end, a rear end, a dirt air inlet and a cleaning head air outlet. <i>See Claim 1[b].</i>
12[c]. a rigid air flow conduit extendable between the cleaning head air outlet and the hand vacuum cleaner air inlet, the rigid air flow conduit having a longitudinally extending conduit axis which is parallel to the rearward direction when the rigid air flow conduit extends between the cleaning head air outlet and the hand vacuum cleaner air inlet and when the hand vacuum cleaner is mounted to a	The Dyson Gen5 line includes a rigid air flow conduit extendable between the cleaning head air outlet and the hand vacuum cleaner air inlet, the rigid air flow conduit having a longitudinally extending conduit axis which is parallel to the rearward direction when the rigid air flow conduit extends between the cleaning head air outlet and the hand vacuum cleaner air inlet and when the hand vacuum cleaner is mounted to a downstream end of the rigid air flow conduit, the handle is a driving handle for the surface cleaning apparatus. For example, the below images show a rigid air flow conduit extendable between the cleaning head air outlet and the hand vacuum cleaner air inlet, the rigid air flow conduit having a longitudinally extending conduit axis which is parallel to the rearward direction

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Claim Chart Comparing the Dyson Gen5 line to U.S. Patent No. 10,117,550

downstream end of the rigid air flow conduit, the handle is a driving handle for the surface cleaning apparatus.

when the rigid air flow conduit extends between the cleaning head air outlet and the hand vacuum cleaner air inlet and when the hand vacuum cleaner is mounted to a downstream end of the rigid air flow conduit, the handle is a driving handle for the surface cleaning apparatus.



https://www.dyson.com/content/dam/dyson/maintenance/user-guides/en_US/vacuumcleaners/cordlessstickvacuums/sv23/447329-01.pdf (annotated).

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	 https://www.dyson.com/vacuum-cleaners/cordless/gen5/detect-hepa-purple-iron#technology
13. The surface cleaning apparatus of claim 12 wherein the air treatment member air outlet comprises an outlet conduit having an outlet conduit axis that is generally parallel to longitudinally extending conduit axis.	The Dyson Gen5 line includes a surface cleaning apparatus wherein the air treatment member air outlet comprises an outlet conduit having an outlet conduit axis that is generally parallel to longitudinally extending conduit axis. For example, the below images show a surface cleaning apparatus wherein the air treatment member air outlet comprises an outlet conduit having an outlet conduit axis that is generally parallel to longitudinally extending conduit axis.

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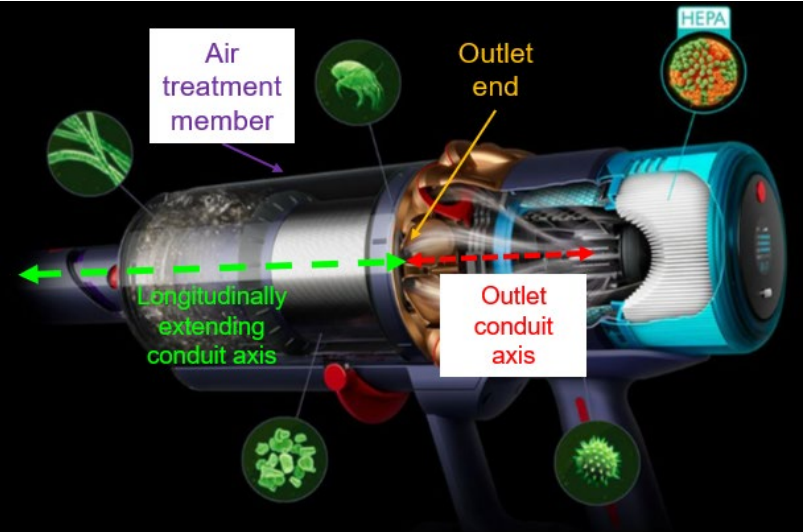
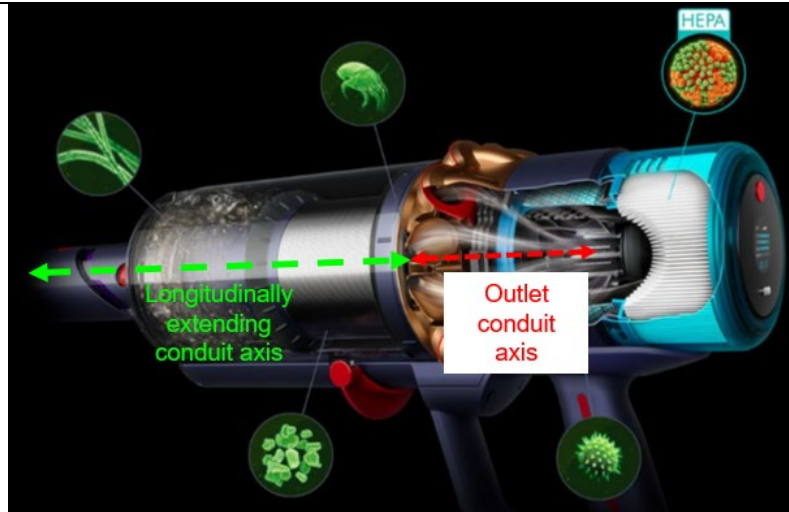
	 https://www.dyson.com/vacuum-cleaners/cordless/gen5/detect-absolute-hepa-prussian-blue (annotated).
14. The surface cleaning apparatus of claim 12 wherein the outlet conduit axis is rearward of the longitudinally extending conduit axis when the hand vacuum cleaner is mounted to the rigid air flow conduit and the rigid air flow conduit extends generally vertically upwardly from the surface cleaning head.	The Dyson Gen5 line includes a surface cleaning apparatus wherein the outlet conduit axis is rearward of the longitudinally extending conduit axis when the hand vacuum cleaner is mounted to the rigid air flow conduit and the rigid air flow conduit extends generally vertically upwardly from the surface cleaning head. For example, the below images show a surface cleaning apparatus wherein the outlet conduit axis is rearward of the longitudinally extending conduit axis when the hand vacuum cleaner is mounted to the rigid air flow conduit and the rigid air flow conduit extends generally vertically upwardly from the surface cleaning head.

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<https://www.dyson.com/vacuum-cleaners/cordless/gen5/detect-absolute-hepa-prussian-blue> (annotated).

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Claim Chart Comparing the Dyson Gen5 line to U.S. Patent No. 10,117,550

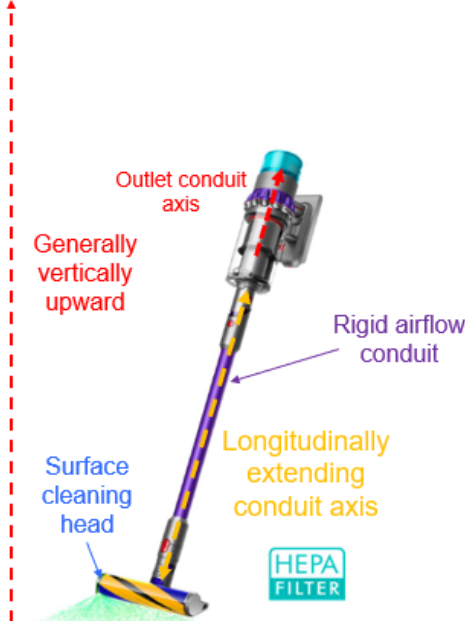
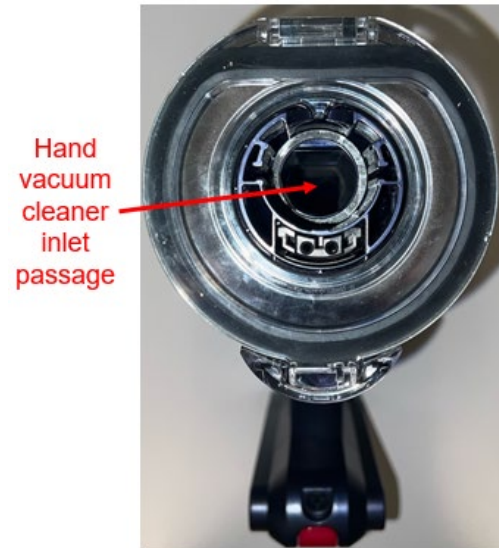
	 https://www.dyson.com/vacuum-cleaners/cordless/gen5/detect-hepa-purple-iron#technology (annotated).
17. The surface cleaning apparatus of claim 12 wherein the suction motor axis of rotation is generally parallel to the longitudinally extending conduit axis.	The Dyson Gen5 line includes a surface cleaning apparatus wherein the suction motor axis of rotation is generally parallel to the longitudinally extending conduit axis. <i>See Claim 4.</i>
18. The surface cleaning apparatus of claim 12 wherein the rigid air flow conduit is removably attachable to the hand vacuum cleaner air inlet and the hand vacuum cleaner air inlet comprises a hand vacuum cleaner inlet passage that is generally parallel to the longitudinally extending conduit axis	The Dyson Gen5 line includes a surface cleaning apparatus wherein the rigid air flow conduit is removably attachable to the hand vacuum cleaner air inlet and the hand vacuum cleaner air inlet comprises a hand vacuum cleaner inlet passage that is generally parallel to the longitudinally extending conduit axis when the rigid air flow conduit is attached to the hand vacuum cleaner air inlet, the hand vacuum cleaner inlet passage having an inlet end and an outlet end, the outlet end communicating with an air treatment member air inlet and the electrical cables extend rearwardly adjacent the hand vacuum cleaner inlet passage.

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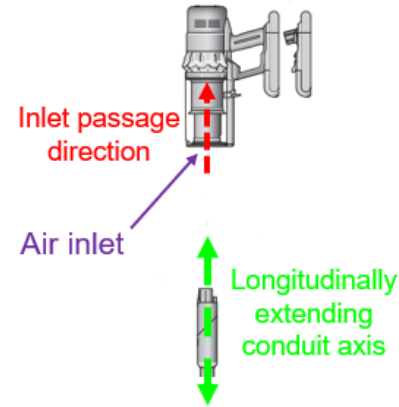
when the rigid air flow conduit is attached to the hand vacuum cleaner air inlet, the hand vacuum cleaner inlet passage having an inlet end and an outlet end, the outlet end communicating with an air treatment member air inlet and the electrical cables extend rearwardly adjacent the hand vacuum cleaner inlet passage.

For example, the below images show a surface cleaning apparatus wherein the rigid air flow conduit is removably attachable to the hand vacuum cleaner air inlet and the hand vacuum cleaner air inlet comprises a hand vacuum cleaner inlet passage that is generally parallel to the longitudinally extending conduit axis when the rigid air flow conduit is attached to the hand vacuum cleaner air inlet.



Photograph of Dyson Gen5™ (annotated).

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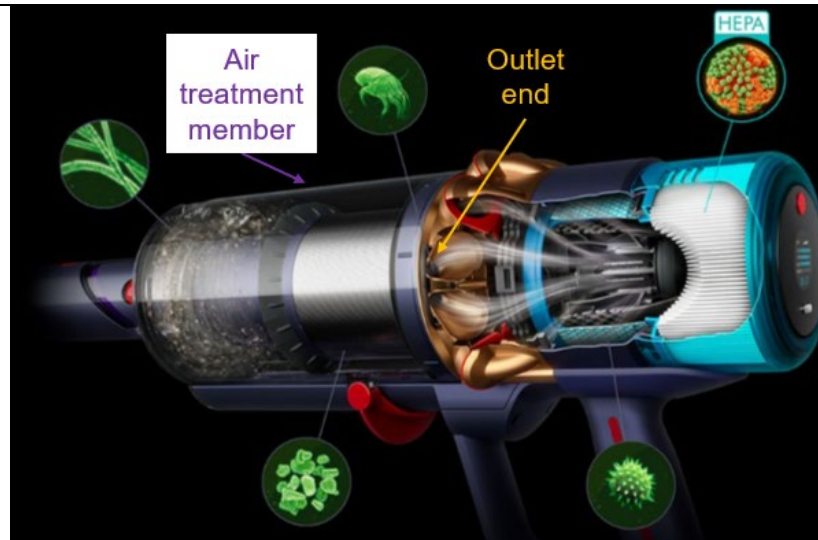
https://www.dyson.com/content/dam/dyson/maintenance/user-guides/en_US/vacuumcleaners/cordlessstickvacuums/sv23/447329-01.pdf (annotated).



Photograph of Dyson Gen5™.

For example, the below images show that the hand vacuum cleaner inlet passage has an inlet end and an outlet end, the outlet end communicating with an air treatment member air inlet and the electrical cables extend rearwardly adjacent the hand vacuum cleaner inlet passage.

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<https://www.dyson.com/vacuum-cleaners/cordless/gen5/detect-absolute-hepa-prussian-blue> (annotated).

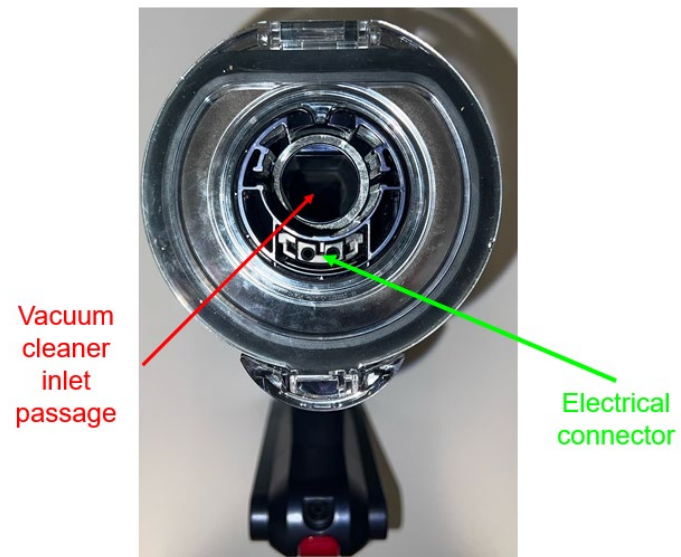


Exhibit A-2
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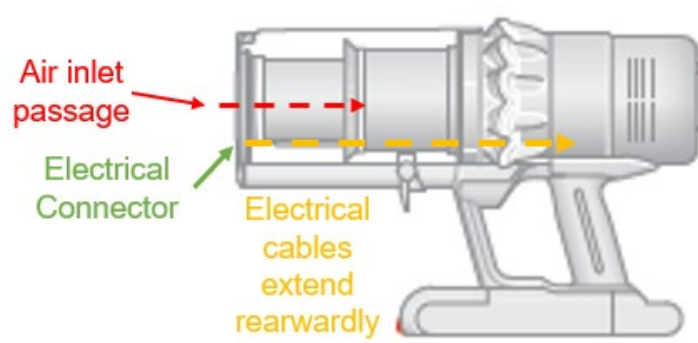
	Photograph of Dyson Gen5™ (annotated).  https://www.dyson.com/content/dam/dyson/maintenance/user-guides/en_US/vacuumcleaners/cordlessstickvacuums/sv23/447329-01.pdf (annotated).
19. The surface cleaning apparatus of claim 18 wherein the hand vacuum cleaner inlet passage is coaxial with the longitudinally extending conduit axis.	The Dyson Gen5 line includes a surface cleaning apparatus wherein the hand vacuum cleaner inlet passage is coaxial with the longitudinally extending conduit axis. <i>See Claim 11.</i>
20[Pre.]. A surface cleaning apparatus comprising:	To the extent the preamble is limiting, the Dyson Gen5 line is a surface cleaning apparatus. <i>See Claim 1[Pre.].</i>
20[a]. a hand vacuum cleaner comprising:	The Dyson Gen5 line includes a hand vacuum cleaner. <i>See Claim 1[a].</i>
20[a][i]. a hand vacuum cleaner body comprising a handle, the hand vacuum cleaner body housing a suction motor and fan assembly, the suction motor	The Dyson Gen5 line includes a hand vacuum cleaner body comprising a handle, the hand vacuum cleaner body housing a suction motor and fan assembly, the suction motor and fan assembly having a suction motor axis of rotation.

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and fan assembly having a suction motor axis of rotation; and,	For example, the below images show a hand vacuum cleaner body comprising a handle, the hand vacuum cleaner body housing a suction motor and fan assembly, the suction motor and fan assembly having a suction motor axis of rotation. The diagram shows a side view of a hand vacuum cleaner body. A green bracket at the top points to the main cylindrical housing, labeled 'Hand vacuum cleaner body housing'. A blue arrow points to the motor area on the right, labeled 'Suction motor and fan assembly'. A yellow dashed line with arrows at both ends passes through the center of the device, labeled 'Suction motor axis of rotation'. A purple arrow points to the handle at the bottom, labeled 'Handle'. https://www.dyson.com/content/dam/dyson/maintenance/user-guides/en_US/vacuumcleaners/cordlessstickvacuums/sv23/447329-01.pdf (annotated).
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Claim Chart Comparing the Dyson Gen5 line to U.S. Patent No. 10,117,550

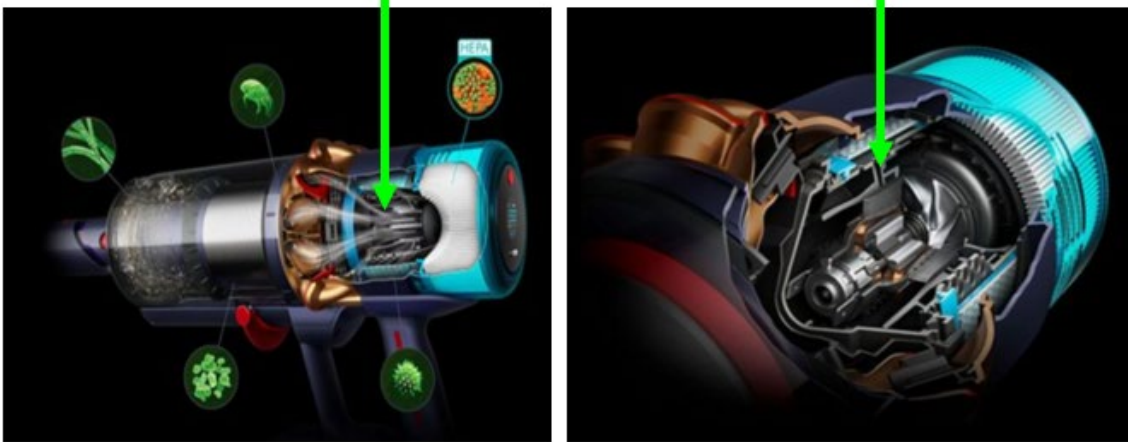
	Suction motor  https://www.dyson.com/vacuum-cleaners/cordless/gen5/detect-absolute-hepa-prussian-blue# (annotated).
20[a][ii]. a cyclone unit provided at a front end of the hand vacuum cleaner body, the cyclone unit comprising a cyclone chamber having a cyclone axis of rotation, a front end of the cyclone unit having a hand vacuum cleaner air inlet and a rear end wherein the hand vacuum cleaner air inlet is provided in a centre of the front end of the cyclone unit; and,	The Dyson Gen5 line includes a cyclone unit provided at a front end of the hand vacuum cleaner body, the cyclone unit comprising a cyclone chamber having a cyclone axis of rotation, a front end of the cyclone unit having a hand vacuum cleaner air inlet and a rear end wherein the hand vacuum cleaner air inlet is provided in a centre of the front end of the cyclone unit <i>See Claim 1[a][ii].</i>
20[a][iii]. an electrical connector provided on the front end of the cyclone unit,	The Dyson Gen5 line includes an electrical connector provided on the front end of the cyclone unit. <i>See Claim 1[a][iii].</i>

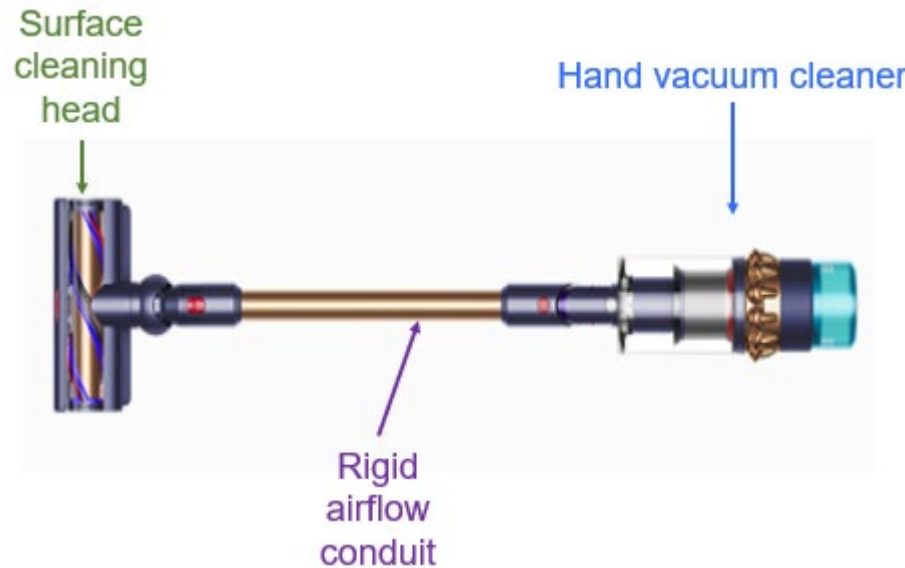
Exhibit A-2
Claim Chart Comparing the Dyson Gen5 line to U.S. Patent No. 10,117,550

20[b]. a surface cleaning head having a front end, a rear end, a dirt air inlet and a cleaning head air outlet; and,	The Dyson Gen5 line includes a surface cleaning head having a front end, a rear end, a dirt air inlet and a cleaning head air outlet. <i>See Claim 1[b].</i>
20[c]. a rigid air flow conduit extendable between the cleaning head air outlet and a hand vacuum cleaner air inlet, the rigid air flow conduit having a longitudinally extending conduit axis which is parallel to the cyclone axis of rotation when the rigid air flow conduit extends between the cleaning head air outlet and the hand vacuum cleaner air inlet,	The Dyson Gen5 line includes a rigid air flow conduit extendable between the cleaning head air outlet and a hand vacuum cleaner air inlet, the rigid air flow conduit having a longitudinally extending conduit axis which is parallel to the cyclone axis of rotation when the rigid air flow conduit extends between the cleaning head air outlet and the hand vacuum cleaner air inlet. <i>See Claim 1[c].</i>
20[d]. 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 downstream end of the rigid air flow conduit, the handle is a driving handle for the surface cleaning apparatus, and	The Dyson Gen5 line includes a surface cleaning apparatus 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 downstream end of the rigid air flow conduit, the handle is a driving handle for the surface cleaning apparatus. <i>See Claim 1[d].</i>
20[e]. wherein when the rigid air flow conduit extends between the cleaning head air outlet and the hand vacuum cleaner air inlet, the hand vacuum cleaner air inlet comprises a hand vacuum cleaner inlet passage that is generally coaxial with the longitudinally extending conduit axis and the cyclone axis of rotation, the hand vacuum cleaner air inlet passage	The Dyson Gen5 line includes a surface cleaning apparatus wherein when the rigid air flow conduit extends between the cleaning head air outlet and the hand vacuum cleaner air inlet, the hand vacuum cleaner air inlet comprises a hand vacuum cleaner inlet passage that is generally coaxial with the longitudinally extending conduit axis and the cyclone axis of rotation, the hand vacuum cleaner air inlet passage is positioned inside the cyclone unit and the electrical cables extend rearwardly from the electrical connector through the cyclone unit adjacent the hand vacuum cleaner inlet passage towards the suction motor and fan assembly.

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is positioned inside the cyclone unit and the electrical cables extend rearwardly from the electrical connector through the cyclone unit adjacent the hand vacuum cleaner inlet passage towards the suction motor and fan assembly.

For example, the below images show a surface cleaning apparatus wherein when the rigid air flow conduit extends between the cleaning head air outlet and the hand vacuum cleaner air inlet, the hand vacuum cleaner air inlet comprises a hand vacuum cleaner inlet passage that is generally coaxial with the longitudinally extending conduit axis and the cyclone axis of rotation.



<https://www.dyson.com/vacuum-cleaners/cordless/gen5/detect-absolute-hepa-prussian-blue> (annotated).

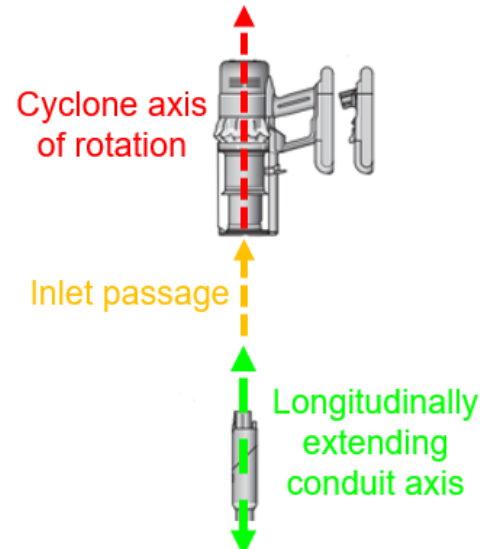
Exhibit A-2
Claim Chart Comparing the Dyson Gen5 line to U.S. Patent No. 10,117,550

Vacuum
cleaner
inlet/Inlet
passage



Front end of
air treatment
member

Photograph of Dyson Gen5™ (annotated).



https://www.dyson.com/content/dam/dyson/maintenance/user-guides/en_US/vacuumcleaners/cordlessstickvacuums/sv23/447329-01.pdf (annotated).

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Claim Chart Comparing the Dyson Gen5 line to U.S. Patent No. 10,117,550

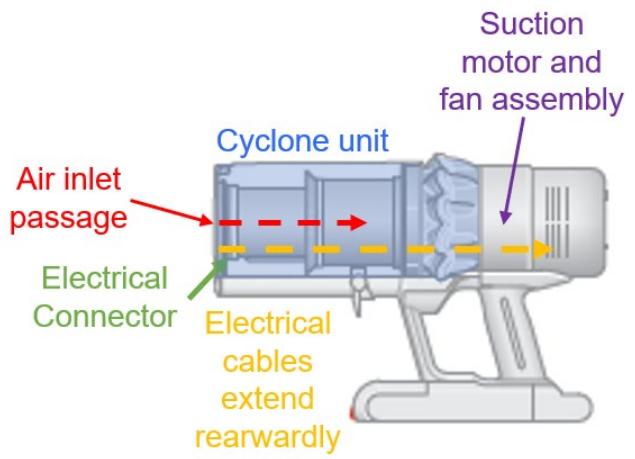
	For example, the below images show that the hand vacuum cleaner air inlet passage is positioned inside the cyclone unit and the electrical cables extend rearwardly from the electrical connector through the cyclone unit adjacent the hand vacuum cleaner inlet passage towards the suction motor and fan assembly.  https://www.dyson.com/content/dam/dyson/maintenance/user-guides/en_US/vacuumcleaners/cordlessstickvacuums/sv23/447329-01.pdf (annotated).
21. The surface cleaning apparatus of claim 20 wherein the hand vacuum cleaner body comprises a suction motor and fan assembly housing and the handle extends from a sidewall of the suction motor and fan assembly housing.	The Dyson Gen5 line includes a surface cleaning apparatus wherein the hand vacuum cleaner body comprises a suction motor and fan assembly housing and the handle extends from a sidewall of the suction motor and fan assembly housing. For example, the below images show a surface cleaning apparatus wherein the hand vacuum cleaner body comprises a suction motor and fan assembly housing and the handle extends from a sidewall of the suction motor and fan assembly housing.

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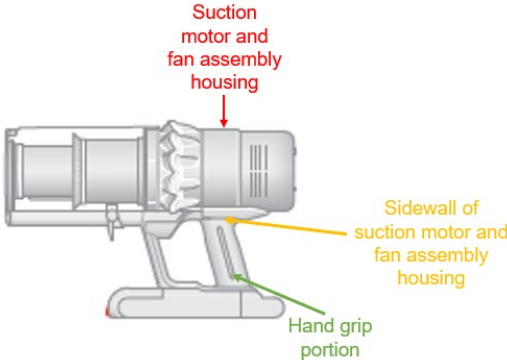
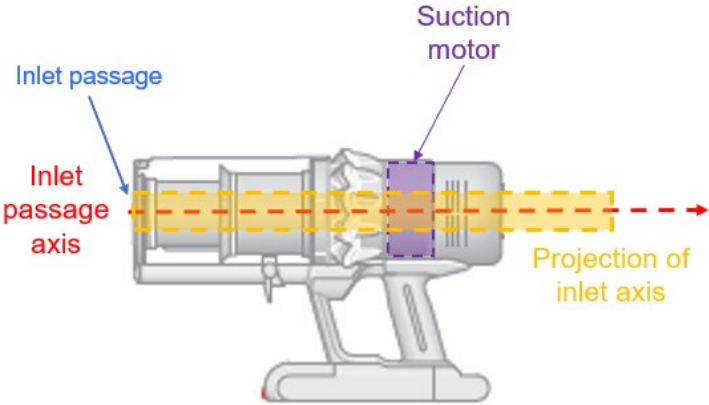
	 https://www.dyson.com/content/dam/dyson/maintenance/user-guides/en_US/vacuumcleaners/cordlessstickvacuums/sv23/447329-01.pdf (annotated).
22. The surface cleaning apparatus of claim 1 wherein the hand vacuum cleaner inlet passage has an inlet axis and a projection of each of the inlet axis and the cyclone axis intersects the suction motor.	The Dyson Gen5 line includes a surface cleaning apparatus wherein the hand vacuum cleaner inlet passage has an inlet axis and a projection of each of the inlet axis and the cyclone axis intersects the suction motor. For example, the below images show a surface cleaning apparatus wherein the hand vacuum cleaner inlet passage has an inlet axis and a projection of each of the inlet axis and the cyclone axis intersects the suction motor. 

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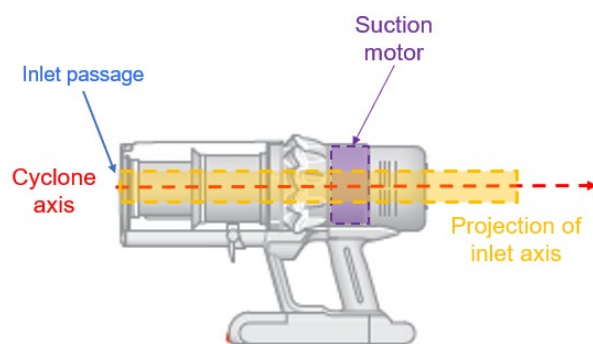
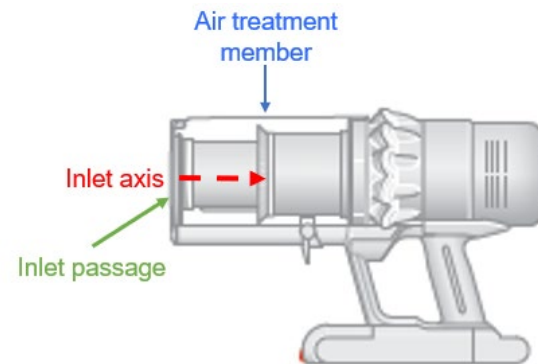
	https://www.dyson.com/content/dam/dyson/maintenance/user-guides/en_US/vacuumcleaners/cordlessstickvacuums/sv23/447329-01.pdf (annotated).  https://www.dyson.com/content/dam/dyson/maintenance/user-guides/en_US/vacuumcleaners/cordlessstickvacuums/sv23/447329-01.pdf (annotated).
23. The surface cleaning apparatus of claim 12 wherein the hand vacuum cleaner air inlet comprises a hand vacuum cleaner inlet passage that has an inlet axis, and when the rigid air flow conduit extends between the cleaning head air outlet and the hand vacuum cleaner air inlet, the inlet axis is generally parallel to the longitudinally extending conduit axis and a projection of each of the inlet axis and an outlet conduit axis of the air treatment member intersects the suction motor.	The Dyson Gen5 line includes a surface cleaning apparatus wherein the hand vacuum cleaner air inlet comprises a hand vacuum cleaner inlet passage that has an inlet axis, and when the rigid air flow conduit extends between the cleaning head air outlet and the hand vacuum cleaner air inlet, the inlet axis is generally parallel to the longitudinally extending conduit axis and a projection of each of the inlet axis and an outlet conduit axis of the air treatment member intersects the suction motor. For example, the below images show a surface cleaning apparatus wherein the hand vacuum cleaner air inlet comprises a hand vacuum cleaner inlet passage that has an inlet axis, and when the rigid air flow conduit extends between the cleaning head air outlet and the hand vacuum cleaner air inlet, the inlet axis is generally parallel to the longitudinally extending conduit axis and a projection of each of the inlet axis and an outlet conduit axis of the air treatment member intersects the suction motor.

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Hand
vacuum
cleaner
inlet
passage

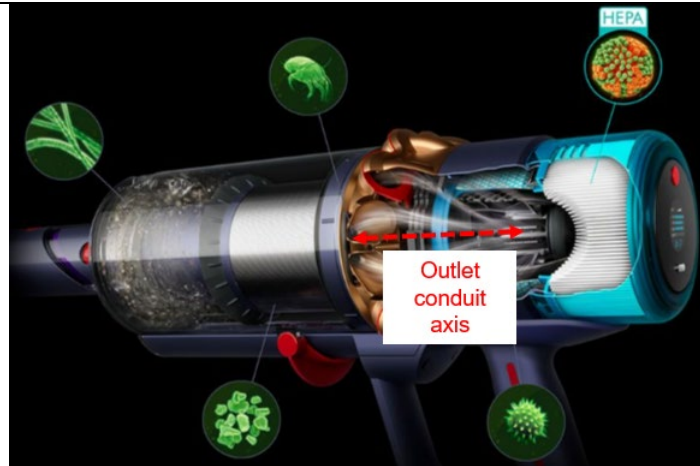


Photograph of Dyson Gen5™ (annotated).

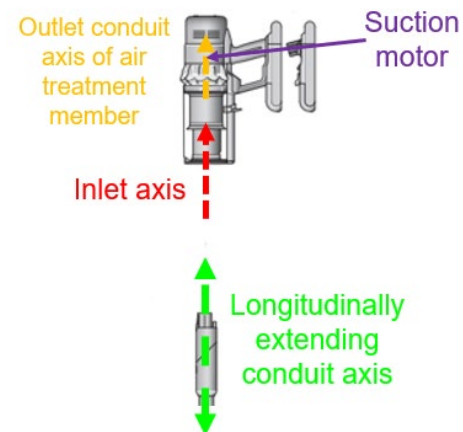


https://www.dyson.com/content/dam/dyson/maintenance/user-guides/en_US/vacuumcleaners/cordlessstickvacuums/sv23/447329-01.pdf (annotated).

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Claim Chart Comparing the Dyson Gen5 line to U.S. Patent No. 10,117,550



<https://www.dyson.com/vacuum-cleaners/cordless/gen5/detect-absolute-hepa-prussian-blue> (annotated).



https://www.dyson.com/content/dam/dyson/maintenance/user-guides/en_US/vacuumcleaners/cordlessstickvacuums/sv23/447329-01.pdf (annotated).

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Claim Chart Comparing the Dyson Gen5 line to U.S. Patent No. 10,117,550

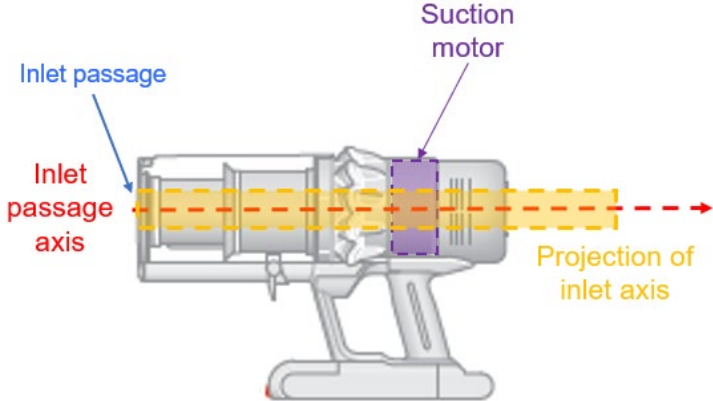
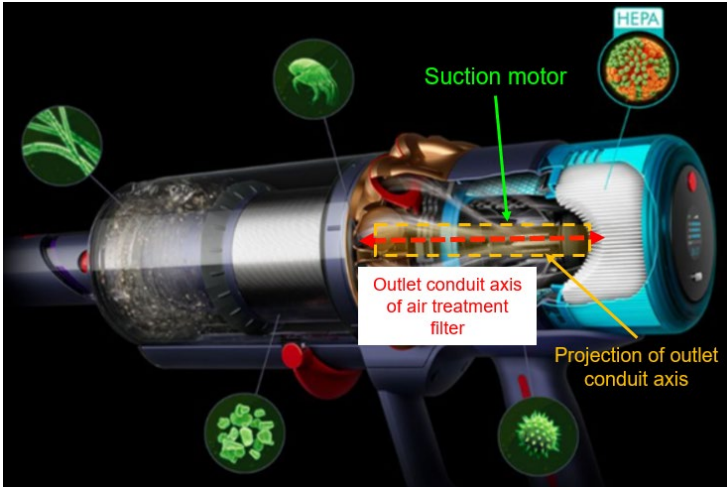
	 The diagram shows a side view of a hand vacuum cleaner. A blue arrow points to the 'Inlet passage' at the front. A red dashed line represents the 'Inlet passage axis'. A purple box highlights the 'Suction motor'. A yellow dashed line represents the 'Projection of inlet axis' extending from the motor area towards the right. https://www.dyson.com/content/dam/dyson/maintenance/user-guides/en_US/vacuumcleaners/cordlessstickvacuums/sv23/447329-01.pdf (annotated).  This diagram shows a cutaway view of the vacuum cleaner's internal components. A green arrow points to the 'Suction motor'. A red dashed line represents the 'Outlet conduit axis of air treatment filter'. A yellow dashed line represents the 'Projection of outlet conduit axis'. A circular inset labeled 'HEPA' shows a cross-section of the filter. Other circular insets show various particles being captured. https://www.dyson.com/vacuum-cleaners/cordless/gen5/detect-absolute-hepa-prussian-blue (annotated).
24. The surface cleaning apparatus of claim 20 wherein the hand vacuum cleaner comprises a hand vacuum	The Dyson Gen5 line includes a surface cleaning apparatus wherein the hand vacuum cleaner comprises a hand vacuum cleaner inlet passage that has an inlet axis, and when the rigid air flow conduit extends between the cleaning head air outlet and the hand

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Claim Chart Comparing the Dyson Gen5 line to U.S. Patent No. 10,117,550

cleaner inlet passage that has an inlet axis, and when the rigid air flow conduit extends between the cleaning head air outlet and the hand vacuum cleaner air inlet, the inlet axis is generally parallel to the longitudinally extending conduit axis and a projection of each of the inlet axis and the cyclone axis intersects the suction motor.

vacuum cleaner air inlet, the inlet axis is generally parallel to the longitudinally extending conduit axis and a projection of each of the inlet axis and the cyclone axis intersects the suction motor.

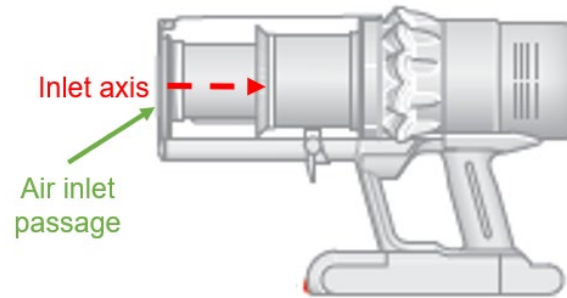
For example, the below images show a surface cleaning apparatus wherein the hand vacuum cleaner comprises a hand vacuum cleaner inlet passage that has an inlet axis, and when the rigid air flow conduit extends between the cleaning head air outlet and the hand vacuum cleaner air inlet, the inlet axis is generally parallel to the longitudinally extending conduit axis.

Hand
vacuum
cleaner
inlet
passage



Photograph of Dyson Gen5™ (annotated).

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https://www.dyson.com/content/dam/dyson/maintenance/user-guides/en_US/vacuumcleaners/cordlessstickvacuums/sv23/447329-01.pdf (annotated).

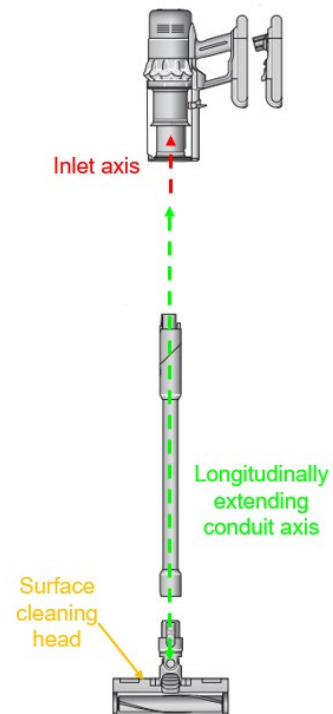
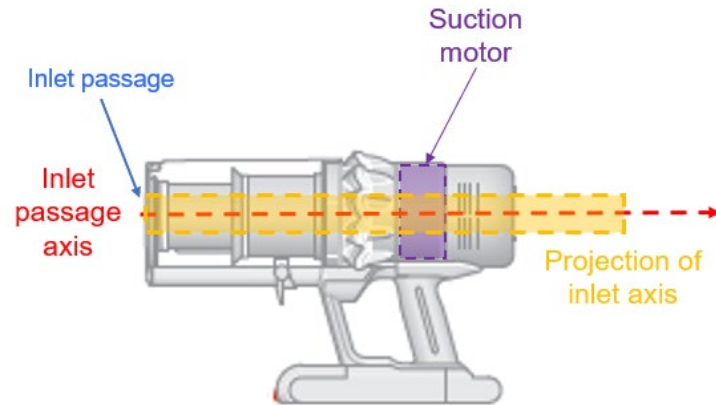


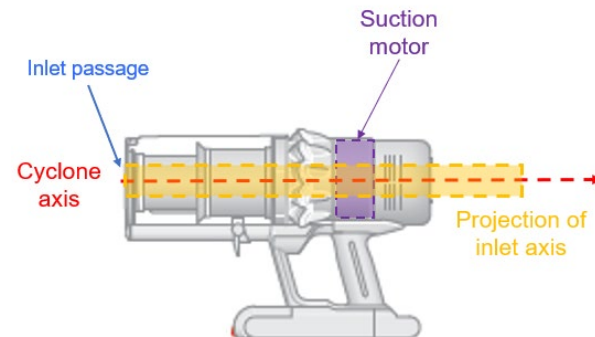
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https://www.dyson.com/content/dam/dyson/maintenance/user-guides/en_US/vacuumcleaners/cordlessstickvacuums/sv23/447329-01.pdf (annotated).

For example, the below images show a projection of each of the inlet axis and the cyclone axis intersecting the suction motor.



https://www.dyson.com/content/dam/dyson/maintenance/user-guides/en_US/vacuumcleaners/cordlessstickvacuums/sv23/447329-01.pdf (annotated).



https://www.dyson.com/content/dam/dyson/maintenance/user-guides/en_US/vacuumcleaners/cordlessstickvacuums/sv23/447329-01.pdf (annotated).

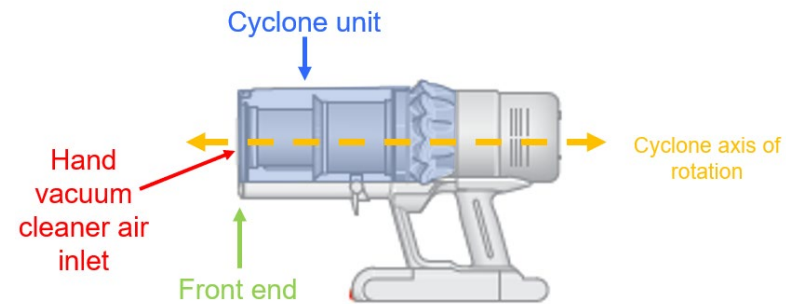
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28[Pre.]. A surface cleaning apparatus comprising:	To the extent the preamble is limiting, the Dyson Gen5 line is a surface cleaning apparatus. <i>See Claim 1[Pre.].</i>
28[a]. a hand vacuum cleaner comprising:	The Dyson Gen5 line includes a hand vacuum cleaner. <i>See Claim 1[a].</i>
28[a][i]. a hand vacuum cleaner body comprising a bottom, a handle, a suction motor and fan assembly, the suction motor and fan assembly having a suction motor axis of rotation, the handle having a hand grip portion that extends upwardly and forwardly when the hand vacuum cleaner is positioned with the bottom on a horizontal surface;	The Dyson Gen5 line includes a hand vacuum cleaner body comprising a bottom, a handle, a suction motor and fan assembly, the suction motor and fan assembly having a suction motor axis of rotation, the handle having a hand grip portion that extends upwardly and forwardly when the hand vacuum cleaner is positioned with the bottom on a horizontal surface. <i>See Claim 1[a][i].</i>
28[a][ii]. a cyclone unit provided at a front end of the hand vacuum cleaner body, the cyclone unit comprising a cyclone chamber having a cyclone axis of rotation, a centre of the front end of the cyclone unit having a hand vacuum cleaner air inlet; and,	The Dyson Gen5 line includes a cyclone unit provided at a front end of the hand vacuum cleaner body, the cyclone unit comprising a cyclone chamber having a cyclone axis of rotation, a centre of the front end of the cyclone unit having a hand vacuum cleaner air inlet. For example, the below images show a cyclone unit provided at a front end of the hand vacuum cleaner body, the cyclone unit comprising a cyclone chamber having a cyclone axis of rotation.

Exhibit A-2
Claim Chart Comparing the Dyson Gen5 line to U.S. Patent No. 10,117,550



<https://www.dyson.com/vacuum-cleaners/cordless/gen5/detect-absolute-hepa-prussian-blue> (annotated).



https://www.dyson.com/content/dam/dyson/maintenance/user-guides/en_US/vacuumcleaners/cordlessstickvacuums/sv23/447329-01.pdf (annotated).

Exhibit A-2
Claim Chart Comparing the Dyson Gen5 line to U.S. Patent No. 10,117,550



<https://www.dyson.com/vacuum-cleaners/cordless/gen5/detect-hepa-purple-iron#technology>

Exhibit A-2
Claim Chart Comparing the Dyson Gen5 line to U.S. Patent No. 10,117,550

	Hand vacuum cleaner air inlet Photograph of Dyson Gen5™ (annotated).
28[a][iii]. a cyclone unit electrical connector provided at the front end of the cyclone unit at a location adjacent the hand vacuum cleaner air inlet, wherein electrical cables extend rearwardly from the electrical connector through a central portion of the cyclone unit toward the suction motor and fan assembly,	The Dyson Gen5 line includes a cyclone unit electrical connector provided at the front end of the cyclone unit at a location adjacent the hand vacuum cleaner air inlet, wherein electrical cables extend rearwardly from the electrical connector through a central portion of the cyclone unit toward the suction motor and fan assembly. <i>See Claim 1[a][iii].</i>

Exhibit A-2
Claim Chart Comparing the Dyson Gen5 line to U.S. Patent No. 10,117,550

28[b]. a surface cleaning head having a front end, a rear end, a dirt air inlet and a cleaning head air outlet; and,	The Dyson Gen5 line includes a surface cleaning head having a front end, a rear end, a dirt air inlet and a cleaning head air outlet. <i>See Claim 1[b].</i>
28[c]. a rigid air flow conduit extendable between the cleaning head air outlet and the hand vacuum cleaner air inlet, the rigid air flow conduit having a longitudinally extending conduit axis, and when the rigid air flow conduit is extending between the cleaning head air outlet and the hand vacuum cleaner air inlet conduit axis is parallel to the cyclone axis of rotation and a rigid air flow conduit electrical connector that is aligned with and connected to the cyclone unit electrical connector when the hand vacuum cleaner is mounted to the rigid air flow conduit,	The Dyson Gen5 line includes a rigid air flow conduit extendable between the cleaning head air outlet and the hand vacuum cleaner air inlet, the rigid air flow conduit having a longitudinally extending conduit axis, and when the rigid air flow conduit is extending between the cleaning head air outlet and the hand vacuum cleaner air inlet conduit axis is parallel to the cyclone axis of rotation and a rigid air flow conduit electrical connector that is aligned with and connected to the cyclone unit electrical connector when the hand vacuum cleaner is mounted to the rigid air flow conduit. For example, the below images show a rigid air flow conduit extendable between the cleaning head air outlet and the hand vacuum cleaner air inlet, the rigid air flow conduit having a longitudinally extending conduit axis.

Exhibit A-2
Claim Chart Comparing the Dyson Gen5 line to U.S. Patent No. 10,117,550

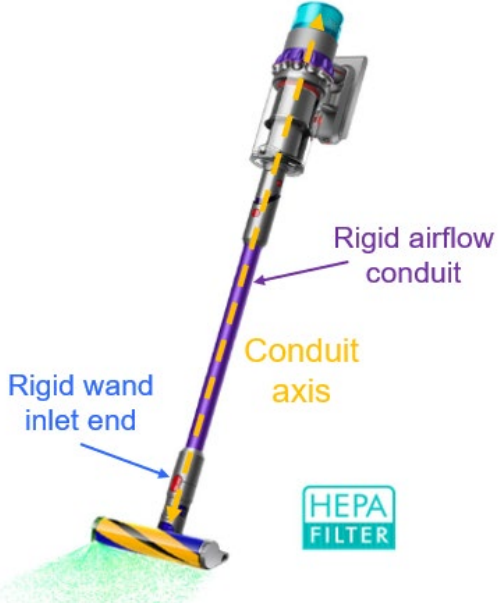
	 https://www.dyson.com/vacuum-cleaners/cordless/gen5/detect-hepa-purple-iron#technology (annotated).
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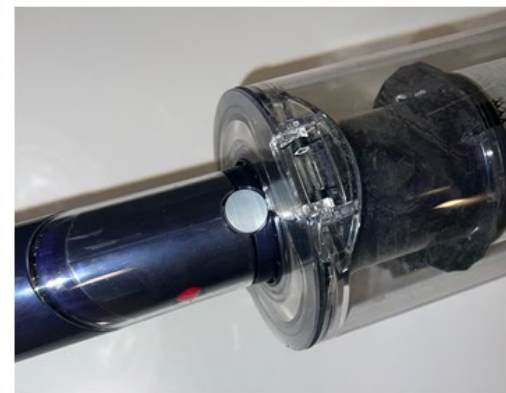
Exhibit A-2
Claim Chart Comparing the Dyson Gen5 line to U.S. Patent No. 10,117,550



<https://www.dyson.com/vacuum-cleaners/cordless/gen5/detect-hepa-purple-iron#technology> (annotated).

For example, the below images show when the rigid air flow conduit is extending between the cleaning head air outlet and the hand vacuum cleaner air inlet conduit axis is parallel to the cyclone axis of rotation and a rigid air flow conduit electrical connector that is aligned with and connected to the cyclone unit electrical connector when the hand vacuum cleaner is mounted to the rigid air flow conduit.

Exhibit A-2
Claim Chart Comparing the Dyson Gen5 line to U.S. Patent No. 10,117,550



Photograph of Dyson Gen5™.



Cyclone
unit
electrical
connector

Photograph of Dyson Gen5™.

Exhibit A-2
Claim Chart Comparing the Dyson Gen5 line to U.S. Patent No. 10,117,550

	Rigid air flow conduit electrical connector Photograph of Dyson Gen5™.
28[d]. 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 downstream end of the rigid air flow conduit, the handle is a driving handle for the surface cleaning apparatus.	The Dyson Gen5 line includes a surface cleaning apparatus 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 downstream end of the rigid air flow conduit, the handle is a driving handle for the surface cleaning apparatus. <i>See Claim 1[d].</i>