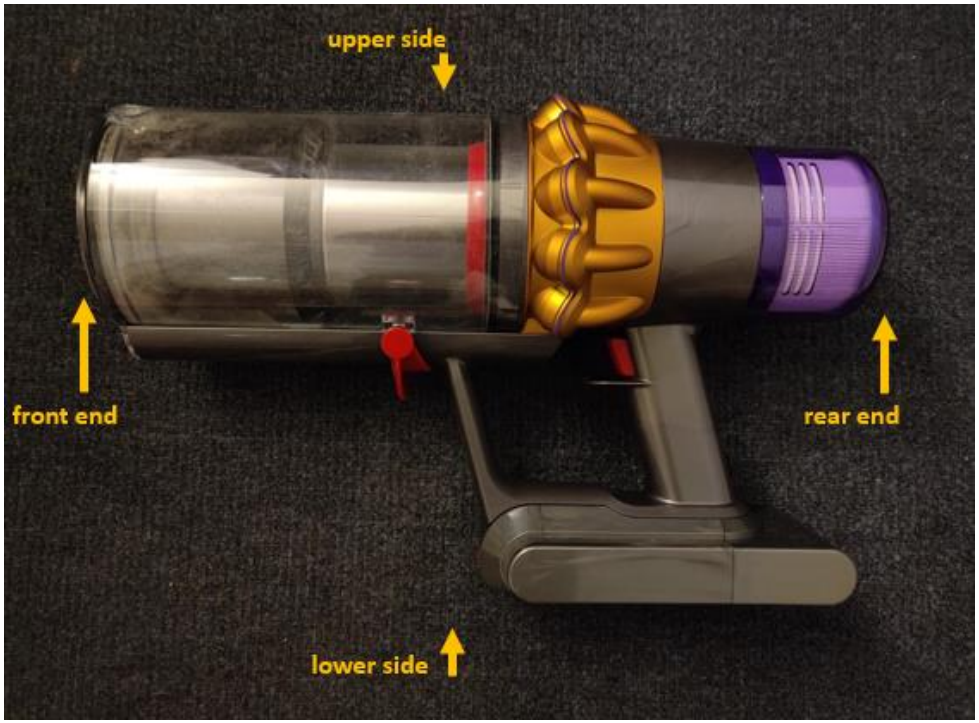
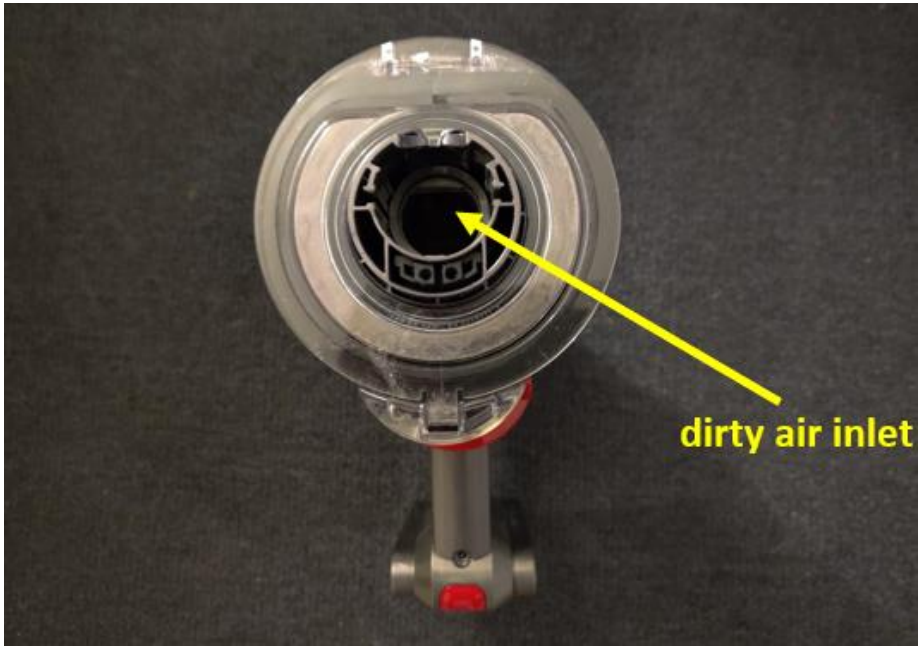
EXHIBIT 29

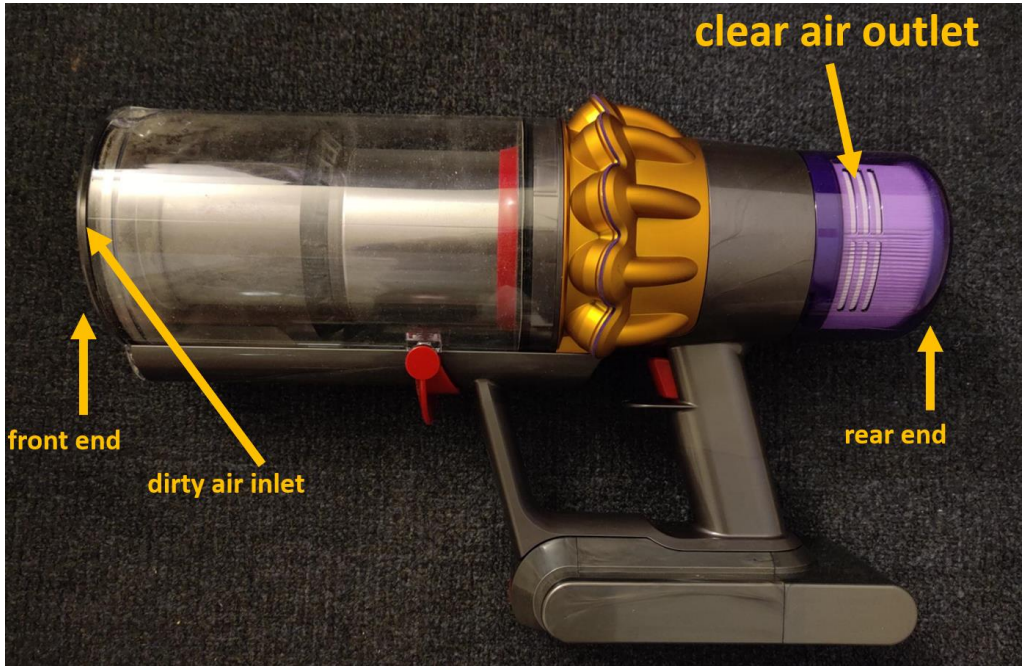
Exhibit 29
U.S. Patent. No. 11,910,984 – Infringement Claim Chart

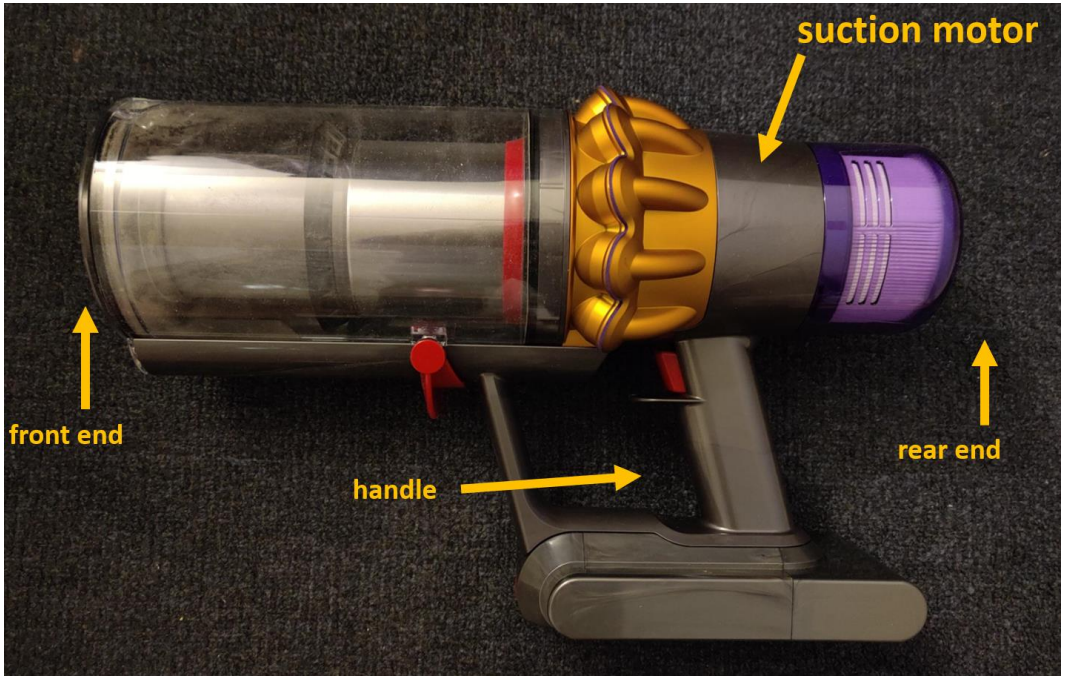
Pursuant to 19 C.F.R. § 210.12(a)(9)(viii), below is a chart that applies asserted independent claims 1 and 10 of U.S. Patent. No. 11,910,984 ("the '984 Patent") to the accused Dyson V15 Detect (referred to herein as the "Dyson V15"). Based on currently available information, the Dyson V15 is representative of all products accused of infringing the '984 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 '984 Patent.

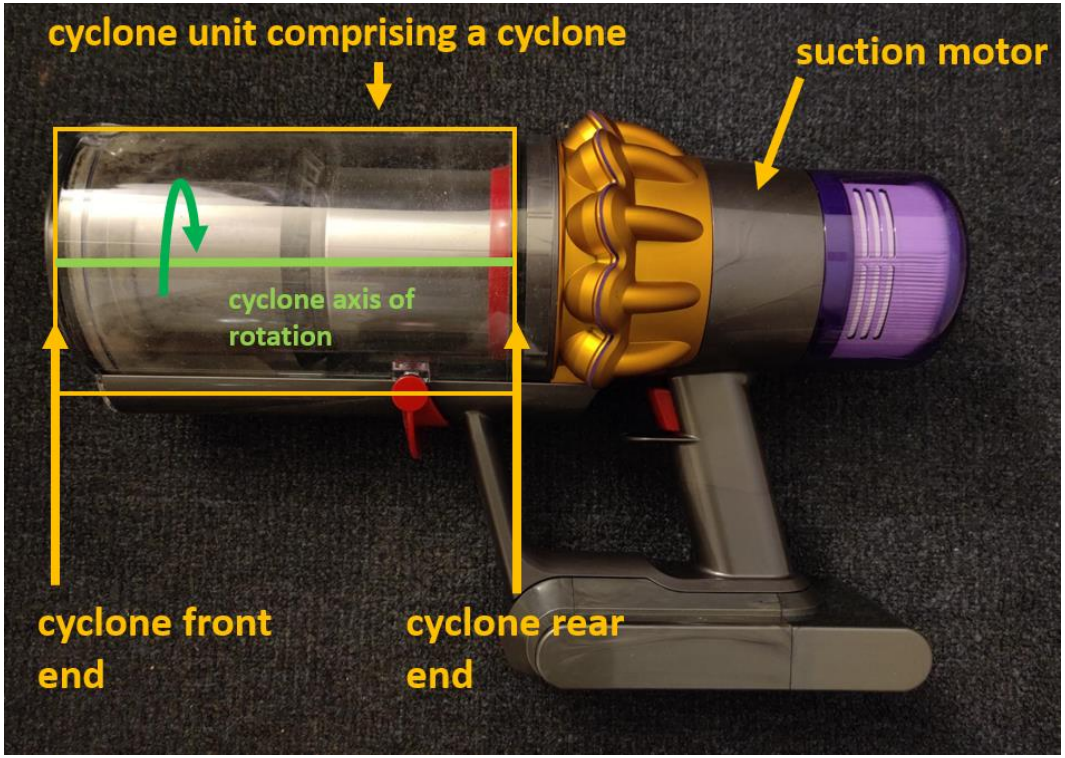
Claim Element	Dyson V15
1. A hand vacuum cleaner having a front end, a rear end, an upper side and a lower side, the hand vacuum cleaner comprising:	To the extent the preamble is limiting, the Dyson V15 includes a hand vacuum cleaner having a front end, a rear end, an upper side and a lower side. For example, the below images show that the Dyson V15 includes a hand vacuum cleaner.  https://www.dyson.com/vacuum-cleaners/cordless/v15 (last accessed Apr. 2, 2024).

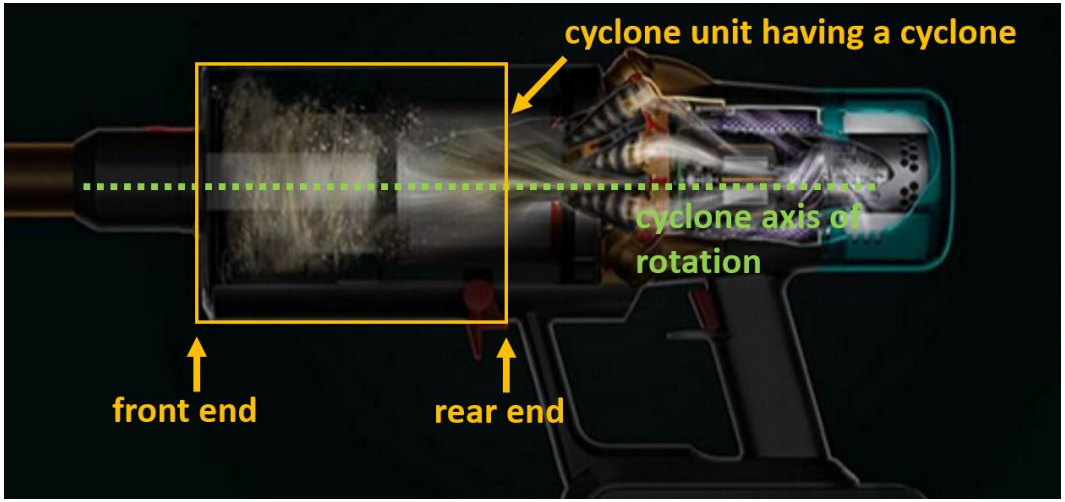
Claim Element	Dyson V15
	Furthermore, the annotated image below shows that the Dyson V15 includes a front end, a rear end, an upper side and a lower side.  Photo of Dyson V15 (annotated).
(a) an air flow passage extending from a dirty air inlet provided at the front end to a clear air outlet provided at the rear end;	The hand vacuum cleaner of the Dyson V15 comprises an air flow passage extending from a dirty air inlet provided at the front end to a clear air outlet provided at the rear end. For example, the annotated image below shows that the Dyson V15 includes an air flow passage extending from a dirty air inlet provided at the front end to a clear air outlet provided at the rear end.

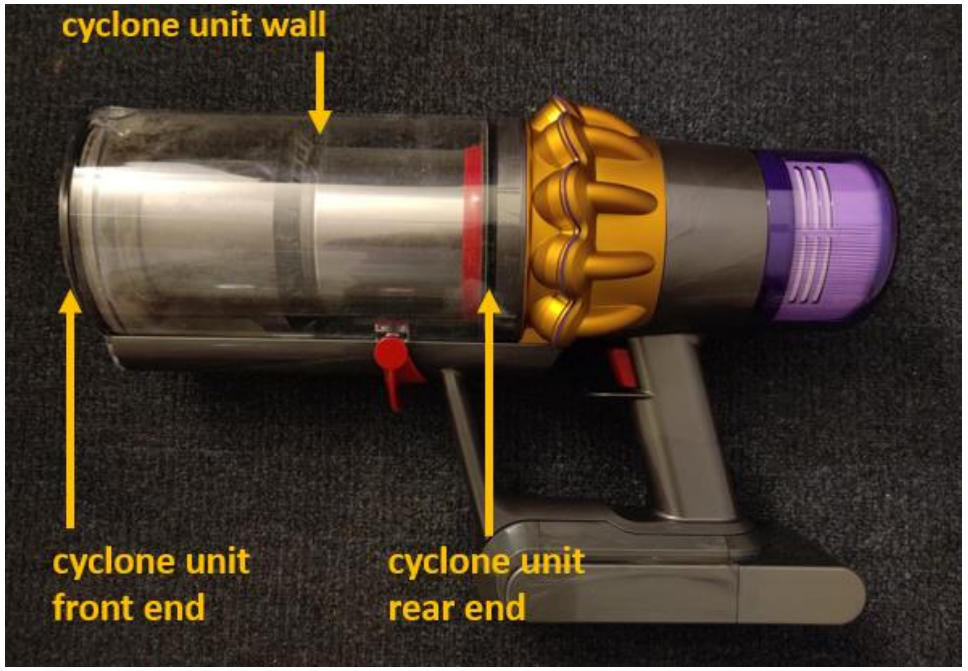
Claim Element	Dyson V15
	 Photo of Dyson V15 (annotated).

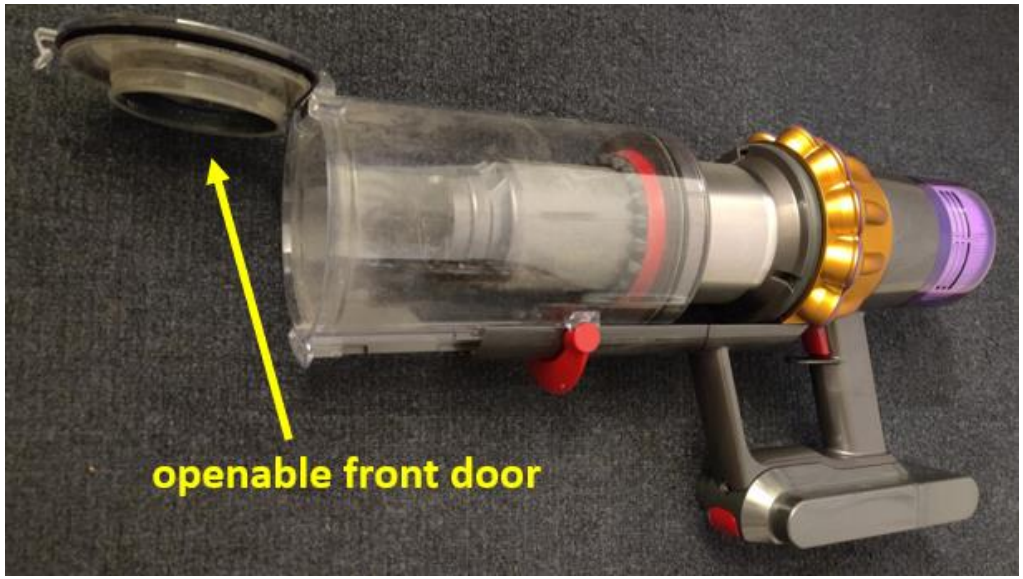
Claim Element	Dyson V15
	 Photo of Dyson V15 (annotated). Air flows into the dirty air inlet, travels through the cyclone unit, and exits through the clear air outlet. This path comprises the air flow passage in the Dyson V15.
(b) a vacuum cleaner body comprising a suction motor positioned in the air flow passage, a front end, a rear end and a handle;	The hand vacuum cleaner of the Dyson V15 comprises a vacuum cleaner body comprising a suction motor positioned in the air flow passage, a front end, a rear end and a handle. For example, the annotated image below shows that the Dyson V15 includes a vacuum cleaner body comprising a suction motor positioned in the air flow passage, a front end, a rear end and a handle.

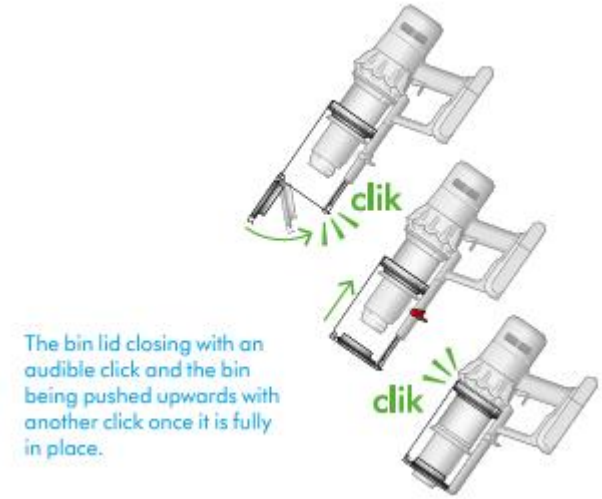
Claim Element	Dyson V15
	 Photo of Dyson V15 (annotated).
(c) a cyclone unit positioned in the air flow passage upstream from the suction motor, the cyclone unit comprising a cyclone having a front end, a rear end, a cyclone axis of rotation extending between the front and rear ends of the cyclone,	The 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. For example, the annotated images below show that the Dyson V15 includes 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.

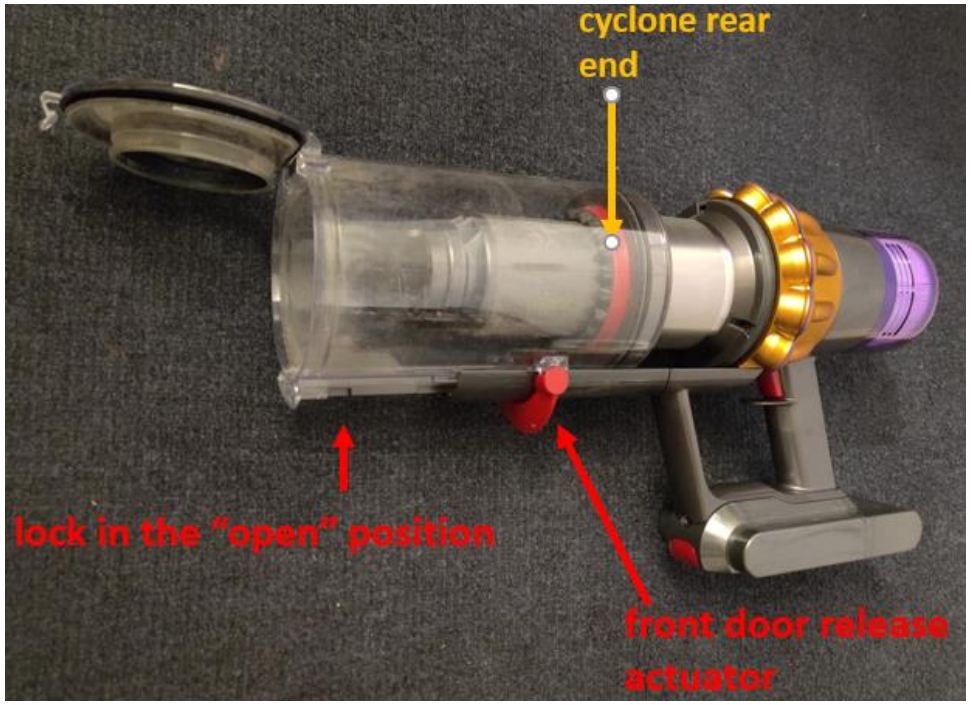
Claim Element	Dyson V15
	 Photo of Dyson V15 (annotated).

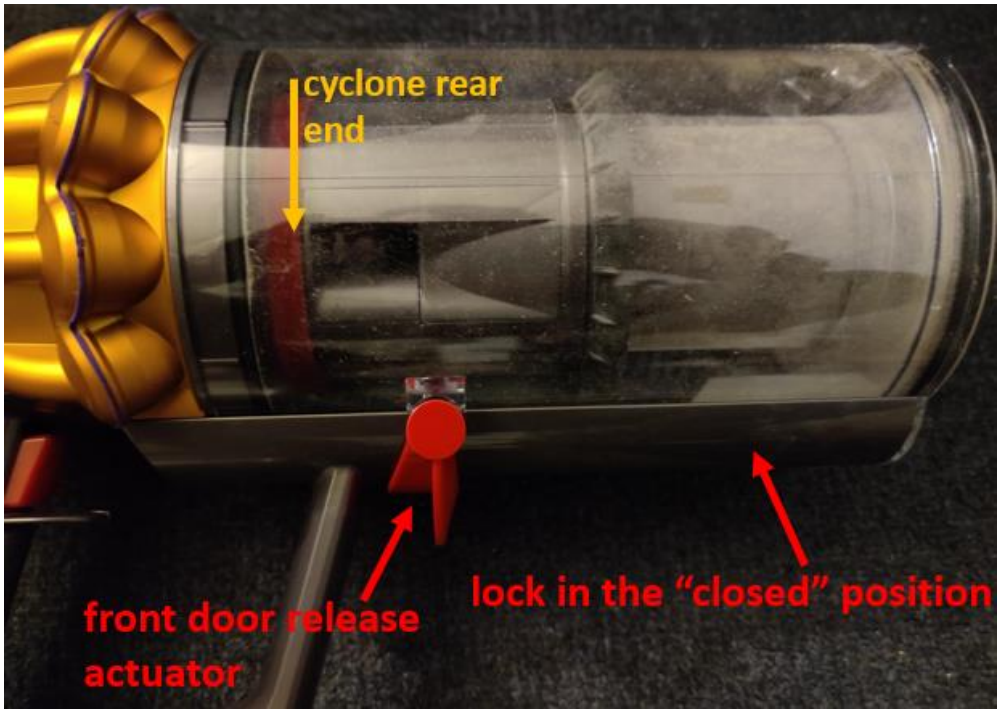
Claim Element	Dyson V15
	 https://www.dyson.com/vacuum-cleaners/cordless/v15/detect-absolute-hepa-gold (annotated) (last accessed Apr. 2, 2024).
the cyclone unit further comprising an axially extending cyclone unit wall which extends to a front end of the cyclone unit, the front end of the cyclone unit comprising a front door that is moveable between a closed position and an open position; and,	The hand vacuum cleaner of the Dyson V15 comprises a cyclone unit further comprising an axially extending cyclone unit wall which extends to a front end of the cyclone unit, the front end of the cyclone unit comprising a front door that is moveable between a closed position and an open position. For example, the annotated images below show that the Dyson V15 includes a cyclone unit further comprising an axially extending cyclone unit wall which extends to a front end of the cyclone unit, the front end of the cyclone unit comprising a front door that is moveable between a closed position and an open position.

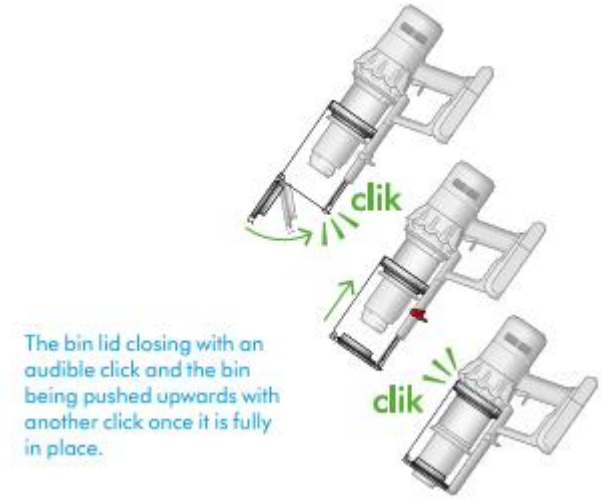
Claim Element	Dyson V15
	 Photo of Dyson V15 (annotated).

Claim Element	Dyson V15
	 Photo of Dyson V15 (annotated).

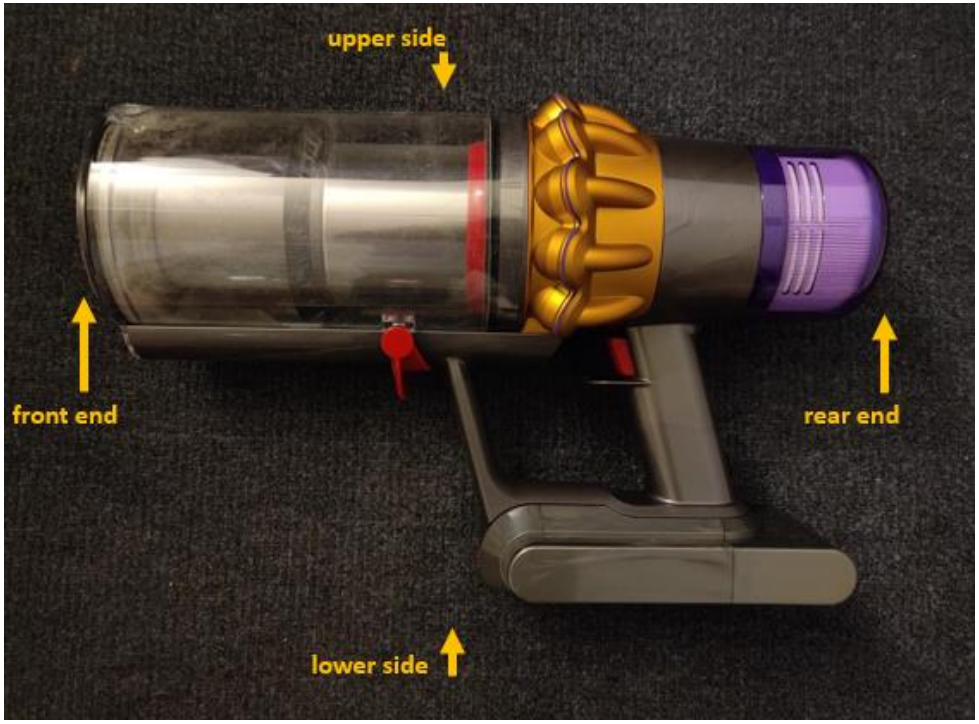
Claim Element	Dyson V15
	 Ex. 55 at 7.
(d) a lock securing the front door in the closed position, the lock comprising an actuator, wherein the actuator is spaced towards the rear end of the cyclone.	The hand vacuum cleaner of the Dyson V15 comprises a lock securing the front door in the closed position, the lock comprising an actuator, wherein the actuator is spaced towards the rear end of the cyclone. For example, the annotated images below show that the Dyson V15 includes a lock securing the front door in the closed position, the lock comprising an actuator, wherein the actuator is spaced towards the rear end of the cyclone.

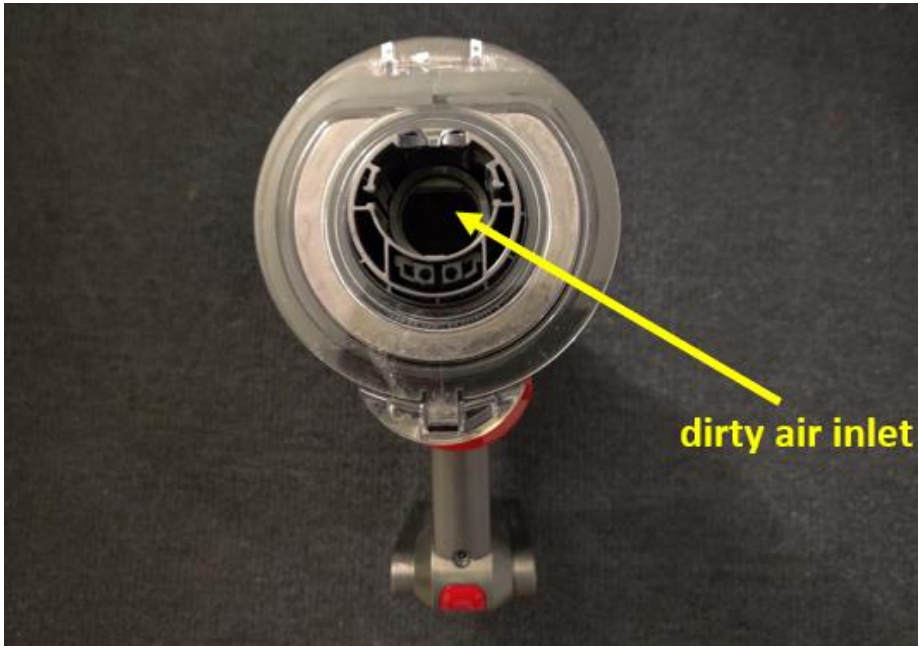
Claim Element	Dyson V15
	 Photo of Dyson V15 (annotated).

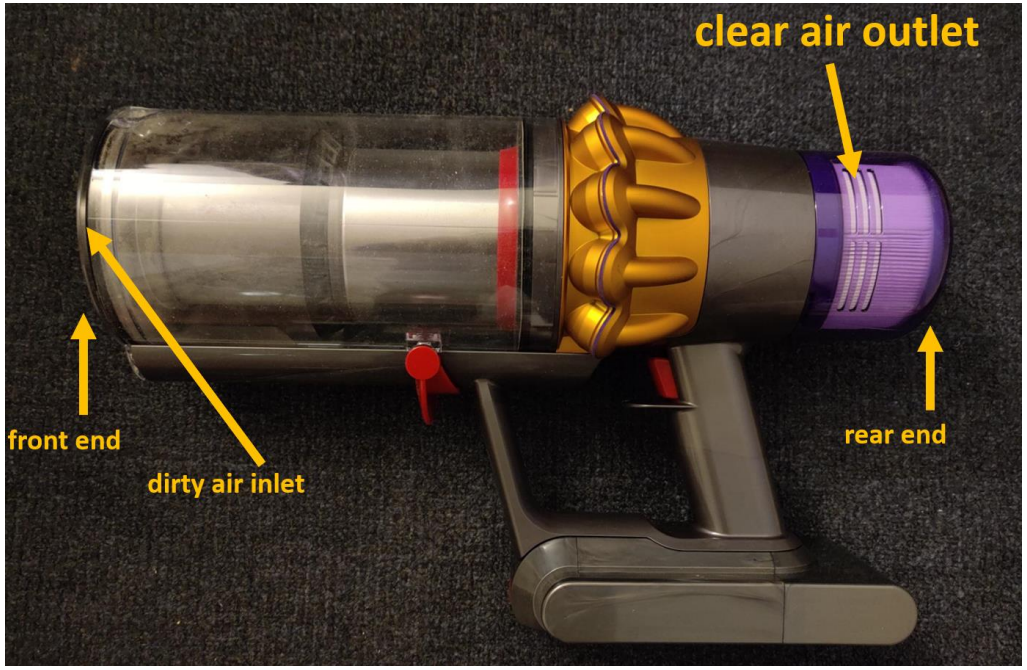
Claim Element	Dyson V15
	 Photo of Dyson V15 (annotated). **Release the dirt** Hold the machine over the bin, pointing downwards. Firmly push the red bin release button. The bin will slide down, cleaning the shroud as it goes, and the bin base will open. The bin base won't open if the red bin release button isn't pushed down all the way.

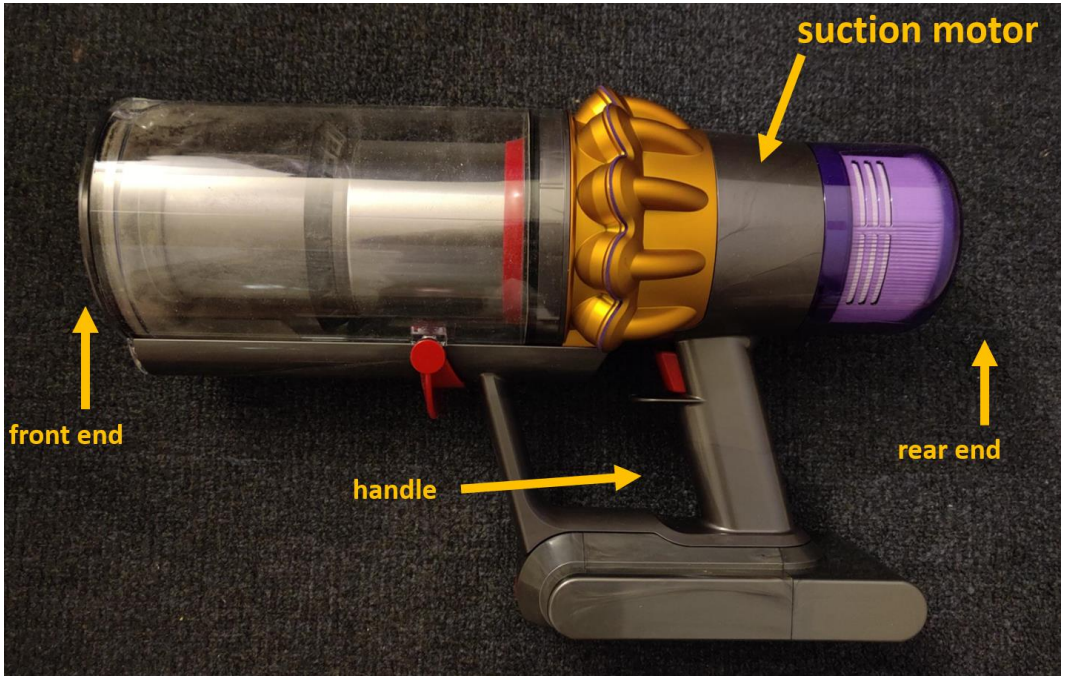
Claim Element	Dyson V15
	 Ex. 55 at 7.
10. A hand vacuum cleaner having a front end, a rear end, an upper side and a lower side, the hand vacuum cleaner comprising:	To the extent the preamble is limiting, the Dyson V15 includes a hand vacuum cleaner having a front end, a rear end, an upper side and a lower side. For example, the below images show that the Dyson V15 includes a hand vacuum cleaner.

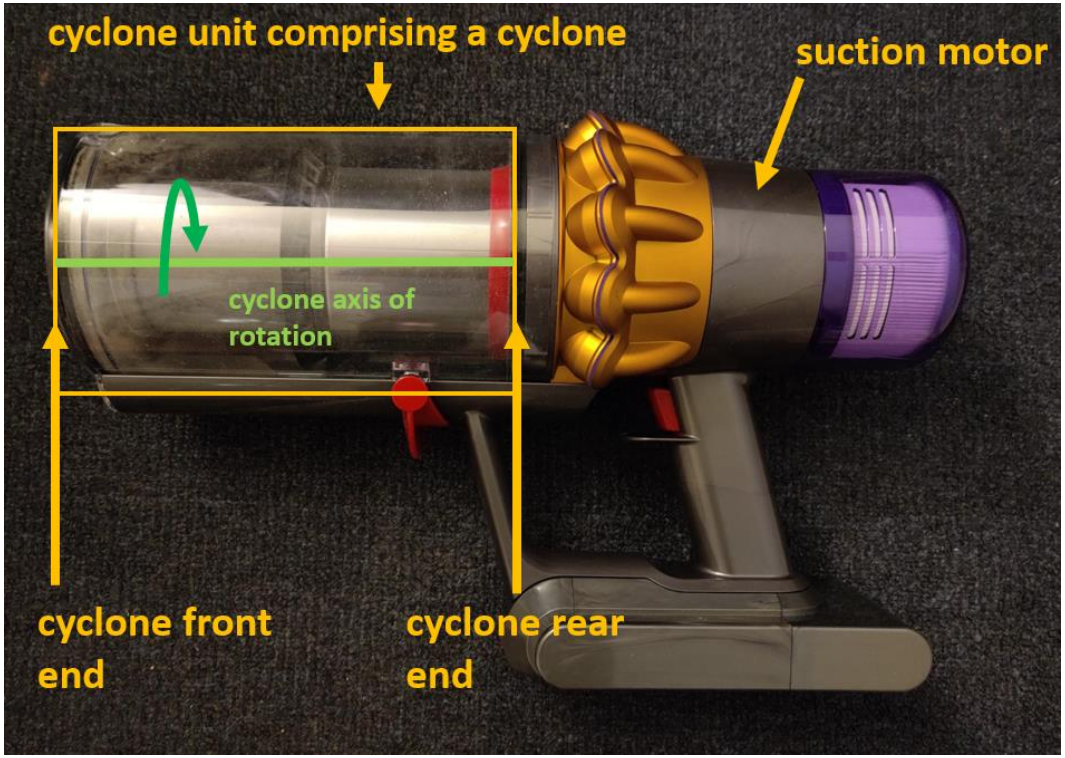
Claim Element	Dyson V15
	 https://www.dyson.com/vacuum-cleaners/cordless/v15 (last accessed Apr. 2, 2024). Furthermore, the annotated image below shows that the Dyson V15 includes a front end, a rear end, an upper side and a lower side.

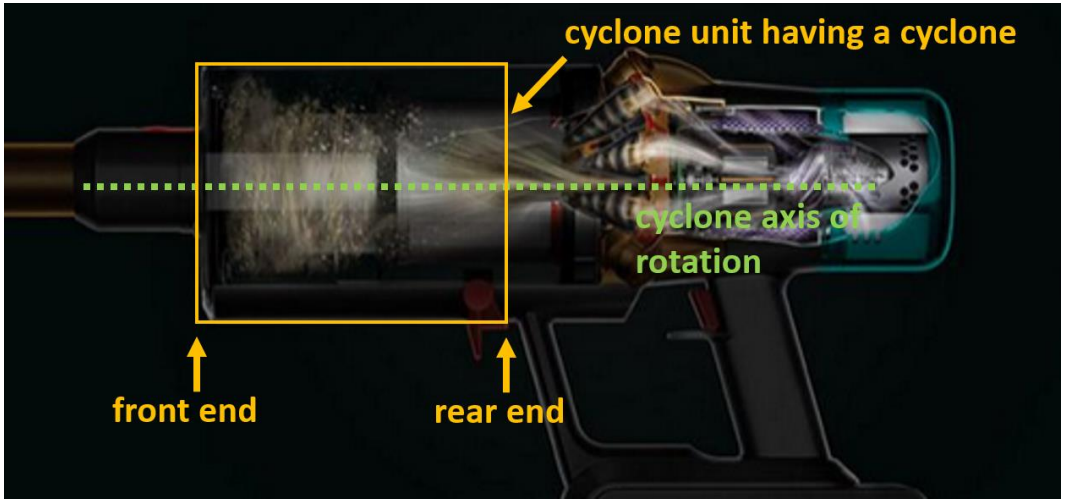
Claim Element	Dyson V15
	 Photo of Dyson V15 (annotated).
(a) an air flow passage extending from a dirty air inlet provided at the front end to a clear air outlet provided at the rear end;	The hand vacuum cleaner of the Dyson V15 comprises an air flow passage extending from a dirty air inlet provided at the front end to a clear air outlet provided at the rear end. For example, the annotated images below show that the Dyson V15 includes an air flow passage extending from a dirty air inlet provided at the front end to a clear air outlet provided at the rear end.

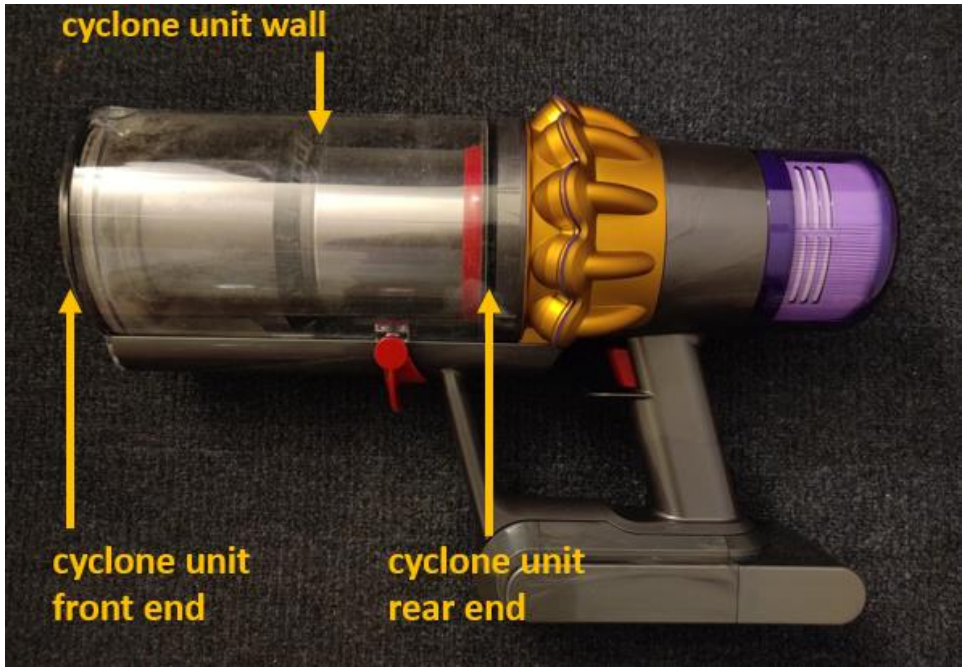
Claim Element	Dyson V15
	 Photo of Dyson V15 (annotated).

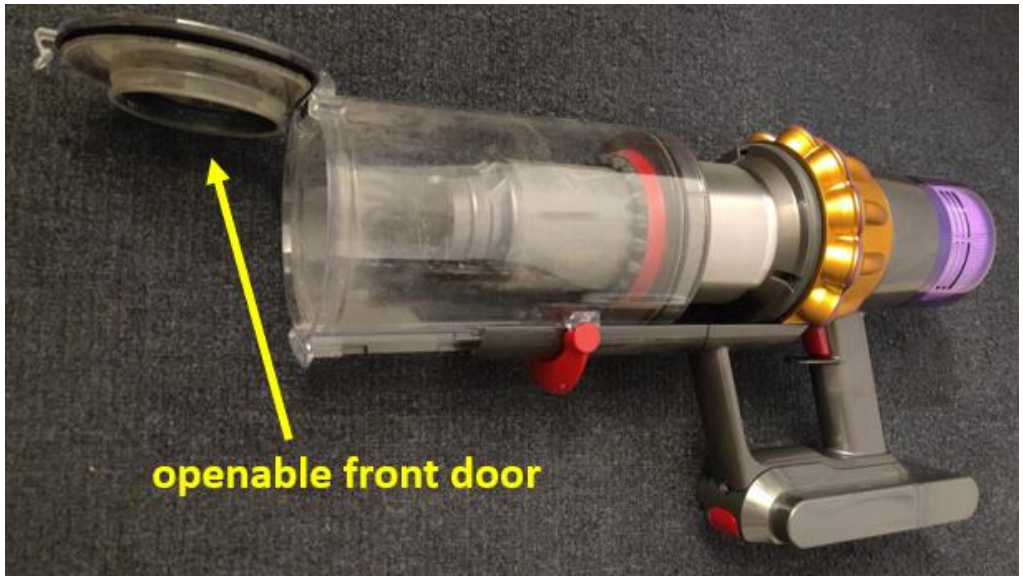
Claim Element	Dyson V15
	 Photo of Dyson V15 (annotated). Air flows into the dirty air inlet, travels through the cyclone unit, and exits through the clear air outlet. This path comprises the air flow passage in the Dyson V15.
(b) a vacuum cleaner body comprising a suction motor positioned in the air flow passage, a front end, and a rear end;	The hand vacuum cleaner of the Dyson V15 comprises a vacuum cleaner body comprising a suction motor positioned in the air flow passage, a front end, and a rear end. For example, the annotated image below show that the Dyson V15 includes a vacuum cleaner body comprising a suction motor positioned in the air flow passage, a front end, and a rear end.

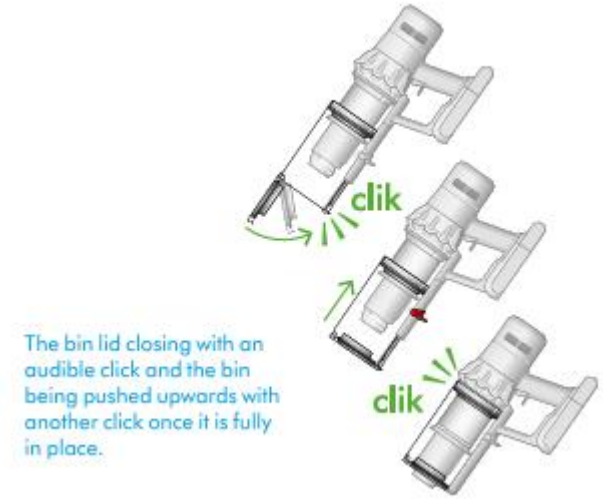
Claim Element	Dyson V15
	 Photo of Dyson V15 (annotated).
(c) a cyclone unit positioned in the air flow passage upstream from the suction motor, the cyclone unit comprising a cyclone having a front end, a rear end, a cyclone axis of rotation extending between the front and rear ends of the cyclone,	The 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. For example, the annotated images below show that the Dyson V15 includes 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.

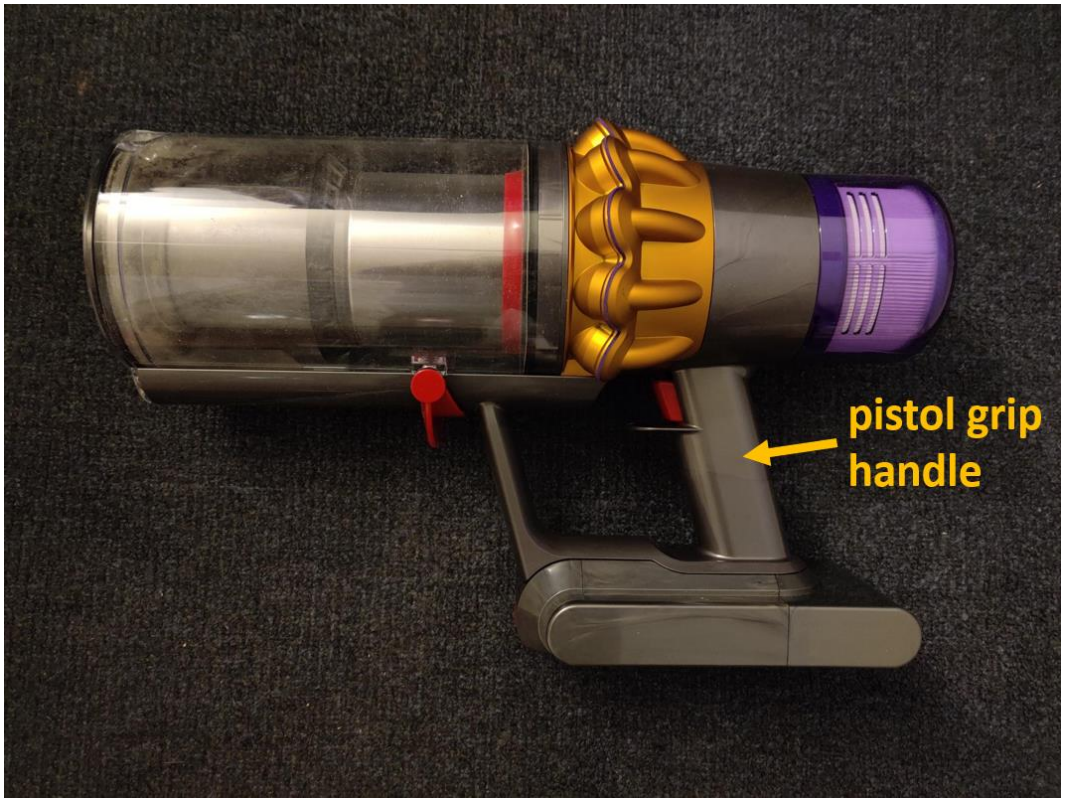
Claim Element	Dyson V15
	 Photo of Dyson V15 (annotated).

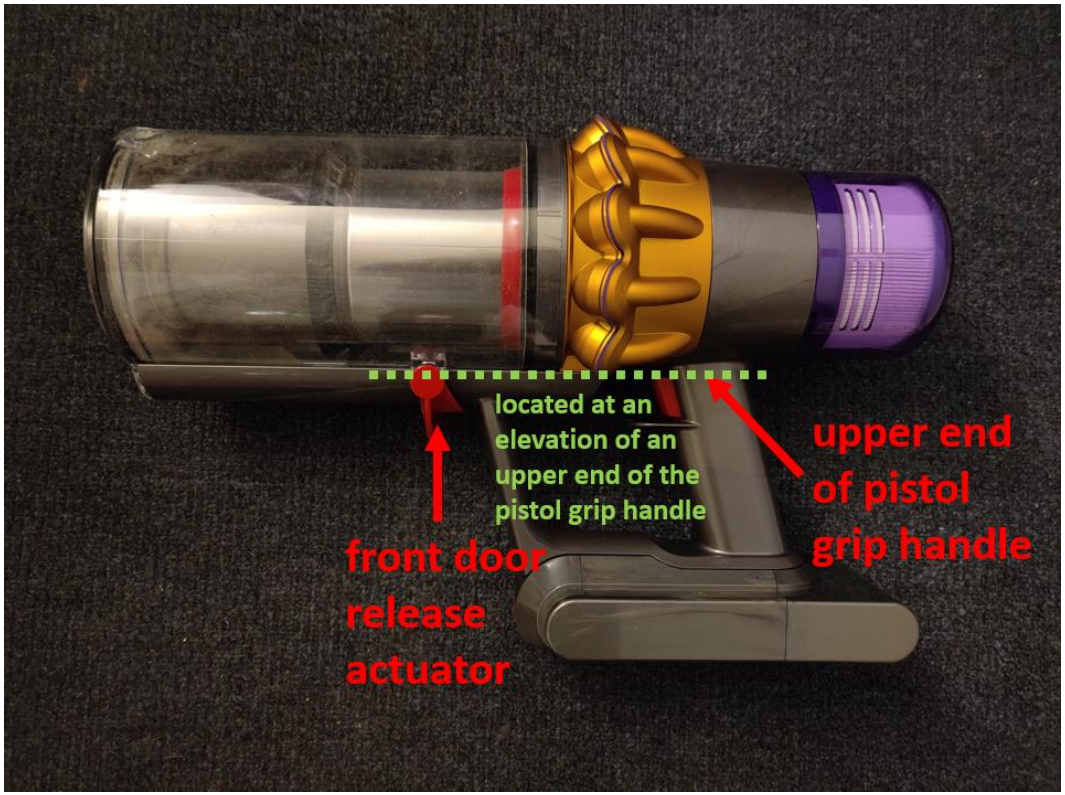
Claim Element	Dyson V15
	 https://www.dyson.com/vacuum-cleaners/cordless/v15/detect-absolute-hepa-gold (annotated) (last accessed Apr. 2, 2024).
the cyclone unit further comprising an axially extending cyclone unit wall which extends to a front end of the cyclone unit, the front end of the cyclone unit comprising a front door that is moveable between a closed position and an open position; and,	The hand vacuum cleaner of the Dyson V15 comprises a cyclone unit further comprising an axially extending cyclone unit wall which extends to a front end of the cyclone unit, the front end of the cyclone unit comprising a front door that is moveable between a closed position and an open position. For example, the annotated images below show that the Dyson V15 includes a cyclone unit further comprising an axially extending cyclone unit wall which extends to a front end of the cyclone unit, the front end of the cyclone unit comprising a front door that is moveable between a closed position and an open position.

Claim Element	Dyson V15
	 Photo of Dyson V15 (annotated).

Claim Element	Dyson V15
	 Photo of Dyson V15 (annotated).

Claim Element	Dyson V15
	 Ex. 55 at 7.
(d) a pistol grip handle; and	The hand vacuum cleaner of the Dyson V15 comprises a pistol grip handle. For example, the annotated images below show that the Dyson V15 includes a pistol grip handle.

Claim Element	Dyson V15
	 Photo of Dyson V15 (annotated).
(e) a lock securing the front door in the closed position, the lock comprising an actuator, wherein the actuator is located at an elevation of an upper end of the pistol grip handle and forward of the pistol grip handle.	The hand vacuum cleaner of the Dyson V15 comprises a lock securing the front door in the closed position, the lock comprising an actuator, wherein the actuator is located at an elevation of an upper end of the pistol grip handle and forward of the pistol grip handle. For example, the annotated images below show that the Dyson V15 includes a lock securing the front door in the closed position, the lock comprising an actuator, wherein the actuator is located at an elevation of an upper end of the pistol grip handle and forward of the pistol grip handle.

Claim Element	Dyson V15
	 Photo of Dyson V15 (annotated).

Claim Element	Dyson V15
	Release the dirt Hold the machine over the bin, pointing downwards. Firmly push the red bin release button. The bin will slide down, cleaning the shroud as it goes, and the bin base will open. The bin base won't open if the red bin release button isn't pushed down all the way.  The bin lid closing with an audible click and the bin being pushed upwards with another click once it is fully in place. Ex. 55 at 7.