

ABSTRACT OF THE DISCLOSURE

An enclosure-based suction apparatus is provided for efficient sucking operations. A revolving airflow is forcedly generated within a space enclosed by an enclosure to generate a tornado without imparting rotating energy. The characteristics of the tornado are utilized to ensure a wide capture range and a strong capturing force to perform efficient sucking operation. The enclosure-based suction apparatus has an enclosure for enclosing a space, an opening formed in the enclosure, and at least one suction port formed in the enclosure near the opening. The suction port is positioned to suck air thereinto to introduce an airflow into the opening from the outside. The introduced airflow interacts with an airflow within the enclosure to form a discontinuous plane therebetween. A plurality of vortexes generated on the discontinuous plane are connected in an axial direction thereof and converged to generate a tornado. The tornado is directed to the suction port to produce a sucking action into the suction port, thereby making it possible to strongly capture and suck products within the enclosure over a wide range.



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