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(54) Title (EN): VACUUM PUMP AND ARRAYS THEREOF

(54) Title (FR): POMPE À VIDE ET RÉSEAUX ASSOCIÉS

(54) Title (KO): 진공 펌프 및 그 어레이

(57) Abstract:

(EN): The present invention relates to a vacuum pump. The vacuum pump is based on a compact vacuum pump comprising: a housing having a vacuum chamber therein; an ejector pump installed in a longitudinal direction inside the vacuum chamber; and an air filter arranged coaxially on the outer side of the ejector pump. The housing according to the present invention comprises: a vacuum line extending to an inlet of the ejector pump through a first supply channel, as an individual compression air supply line; and a cancellation line extending to a gap between the ejector pump and the air filter through a second supply channel. Such a vacuum pump structure has a characteristic of simultaneously giving a vacuum cancellation function and a filter cleaning function to a coaxial vacuum pump structure.

(FR): La présente invention concerne une pompe à vide. La pompe à vide est basée sur une pompe à vide compacte comprenant : un boîtier ayant une chambre à vide à l'intérieur de celui-ci; une pompe à éjecteur installée dans une direction longitudinale à l'intérieur de la chambre à vide; et un filtre à air disposé de manière coaxiale sur le côté extérieur de la pompe à éjecteur. Le boîtier selon la présente invention comprend : une ligne à vide s'étendant jusqu'à une entrée de la pompe à éjecteur par l'intermédiaire d'un premier canal d'alimentation, en tant que ligne d'alimentation en air de compression individuelle; et une ligne d'annulation s'étendant jusqu'à un espace entre la pompe à éjecteur et le filtre à air par l'intermédiaire d'un second canal d'alimentation. Une telle structure de pompe à vide a la caractéristique de fournir simultanément une fonction d'annulation de vide et une fonction de nettoyage de filtre à une structure de pompe à vide coaxiale.

(KO): 본 발명은 진공 펌프에 관한 것으로, 상기 진공펌프는 내부에 진공 챔버를 갖는 하우징과, 상기 진공 챔버의 내부에 축 방향으로 장착되는 이젝터 펌프와, 상기 이젝터 펌프의 외측에 동축 배치되는 에어 필터를 포함하는 콤팩트형 진공 펌프를 기반으로 한다. 본 발명에서, 상기 하우징은, 개별 압축공기 공급 라인으로서, 제1 공급로를 통하여 상기 이젝터 펌프의 유입구로 연장되는 진공 라인과, 제2 공급로를 통하여 상기 이젝터 펌프와 에어 필터 사이의 갭으로 연장되는 파기 라인을 포함하는 것을 특징으로 한다. 이 진공 펌프 구조는 동축형 진공 펌프 구조에 진공 파기기능과 필터 청소기능을 동시에 부여하는 특징이 있다.

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