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Lee et al.

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(54) **HYBRID TYPE AIR-COMPRESSOR INCLUDING COMBINATION OF ECCENTRIC SHAFT AND CROSS-SLIDER MECHANISM**

(58) **Field of Classification Search**
USPC 92/72, 138, 150, 151, 164; 91/491, 493; 417/415, 534
See application file for complete search history.

(75) Inventors: **Tae Soo Lee**, Gyeonggi-do (KR); **Yoon Sun Choi**, Seoul (KR); **Seung Hwan Ryu**, Namyangju-si (KR); **Gil Jun Lee**, Anyang-si (KR); **Yong Duck Kim**, Guri-Si (KR)

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(73) Assignees: **Oxus Co. Ltd.** (KR); **Industry-University Cooperation Foundation Sogang University** (KR)

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Primary Examiner — Michael Leslie
(74) *Attorney, Agent, or Firm* — Wells St. John P.S.

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(57) **ABSTRACT**

Disclosed is a hybrid type air-compressor, which has a main body including a cylinder having upper and lower portions, a motor assembly including an eccentric shaft passing through a side surface of the main body to eccentrically rotate in the cylinder, a first communication part covering an upper portion of the cylinder of the main body and introducing air to discharge the air to the upper portion of the cylinder, a second communication part covering a lower portion of the cylinder of the main body and introducing air to discharge the air to the lower portion of the cylinder; and an air compressing means connected to the eccentric shaft of the motor assembly and vertically moving in the cylinder to alternately compress air introduced into the upper and lower portions of the cylinder.

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20 Claims, 6 Drawing Sheets

