

Title (en)

Air compressor having enlarged compartment for receiving pressurized air

Title (de)

Luftkompressor mit vergrößertem Raum zum Aufnehmen von Druckluft

Title (fr)

Compresseur à air doté d'un compartiment élargi pour recevoir de l'air pressurisé

Publication

**EP 2461036 A1 20120606 (EN)**

Application

**EP 10193531 A 20101202**

Priority

EP 10193531 A 20101202

Abstract (en)

An air compressor includes a cylinder housing (20), an outlet receptacle (40) disposed on the cylinder housing, and a partition (22) formed between the cylinder housing and the outlet receptacle and having an air passage formed in the partition, a piston slidably received in the cylinder housing and coupled to a motor for moving relative to the cylinder housing in a reciprocating action in order to generate a pressurized air, and a spring-biased check valve engaged with the partition for selectively blocking the air passage of the partition, the outlet receptacle includes an inner diameter "D2" no less than an inner diameter "D1" of the cylinder housing for allowing the pressurized air to easily flow into the outlet receptacle and for allowing the piston to be moved in a greater moving speed.

IPC 8 full level

**F04B 39/12** (2006.01)

CPC (source: EP)

**F04B 39/121** (2013.01); **F04B 39/122** (2013.01); **F04B 39/123** (2013.01); **F04B 39/125** (2013.01)

Citation (applicant)

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Citation (search report)

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- [XY] WO 02095231 A1 20021128 - LG ELECTRONICS INC [KR], et al
- [XY] GB 317179 A 19290815 - LEE HOWL & COMPANY LTD, et al
- [X] US 3961868 A 19760608 - DROEGE SR ARTHUR JOHN, et al
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Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**EP 2461036 A1 20120606**; **EP 2461036 B1 20150527**; PL 2461036 T3 20151130

DOCDB simple family (application)

**EP 10193531 A 20101202**; PL 10193531 T 20101202