

Title (en)
AIR COMPRESSOR APPARATUS

Title (de)
LUFTKOMPRESSORVORRICHTUNG

Title (fr)
APPAREIL DE COMPRESSEUR D'AIR

Publication
EP 2955380 A1 20151216 (EN)

Application
EP 13874477 A 20130207

Priority
CN 2013071535 W 20130207

Abstract (en)
An air compressor is disclosed, which can keep the pressure of air supply less than a safety pressure without using a safety valve, so that a tire can be inflated without exceeding a safety pressure thereof. One feature of the air compressor is that: when the piston body, which conducts reciprocating motion in the cylinder, reaches top dead center, a space is existed between the head of the piston body and the top wall of the cylinder. Another feature of the air compressor is that: an adjusting bolt is used to adjust the volume of the auxiliary air chamber to change the maximum permissible output pressure of the air compressor to suit an object. As such, the air compressor does not require a mechanical safety valve to release air for limiting the pressure of air supply. The air compressor can protect a tire from over-inflation and save the manufacturing cost.

IPC 8 full level
F04B 35/04 (2006.01); **F04B 39/12** (2006.01); **F04B 49/035** (2006.01); **F04B 49/16** (2006.01); **F04B 49/24** (2006.01); **F04B 53/10** (2006.01)

CPC (source: EP)
F04B 35/04 (2013.01); **F04B 35/06** (2013.01); **F04B 39/125** (2013.01); **F04B 49/035** (2013.01); **F04B 49/16** (2013.01); **F04B 49/24** (2013.01)

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 2955380 A1 20151216; **EP 2955380 A4 20170111**; **EP 2955380 B1 20180530**; CN 104956083 A 20150930; CN 104956083 B 20161207; DK 2955380 T3 20180903; HU E040241 T2 20190228; JP 2016509154 A 20160324; JP 6178866 B2 20170809; KR 101801626 B1 20171127; KR 20150110503 A 20151002; PL 2955380 T3 20181130; TR 201812103 T4 20180921; WO 2014121498 A1 20140814

DOCDB simple family (application)
EP 13874477 A 20130207; CN 2013071535 W 20130207; CN 201380069832 A 20130207; DK 13874477 T 20130207; HU E13874477 A 20130207; JP 2015555533 A 20130207; KR 20157017325 A 20130207; PL 13874477 T 20130207; TR 201812103 T 20130207