

Title (en)
AIR COMPRESSOR APPARATUS

Title (de)
LUFTKOMPRESSORVORRICHTUNG

Title (fr)
APPAREIL DU TYPE COMPRESSEUR D'AIR

Publication
EP 2955381 A4 20161102 (EN)

Application
EP 13874544 A 20130207

Priority
CN 2013071532 W 20130207

Abstract (en)
[origin: EP2955381A1] An air compressor is disclosed, which provides compressed air having a pressure 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 a tube is formed integrally with the air storage container and on the cylinder, wherein the tube defines therein an auxiliary air chamber communicating with the inner space of the cylinder but not communicating with the air storage container. When the piston body reaches top dead center, the head of the piston body almost contacts the top wall of the cylinder, whereby part of the compressed air may flow into the auxiliary air chamber, so that the piston body can conduct downward strokes more smoothly, and the compressed air can be prevented from exceeding a safety pressure set for an object to be inflated.

IPC 8 full level
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CPC (source: EP)
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Citation (search report)
• [AD] US 7462018 B2 20081209 - CHOU WEN SAN [TW]
• [A] US 2007065311 A1 20070322 - CHOU WEN SAN [TW]
• [A] DE 102008057826 A1 20100602 - JHOU WEN-SAN [TW]
• [A] US 2007098583 A1 20070503 - CHOU WEN S [TW]
• See references of WO 2014121497A1

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EP3211234A1

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

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