

Title (en)
AIR TOOL WITH HELMHOLTZ SILENCER

Title (de)
PNEUMATISCHES WERKZEUG MIT HELMHOLTZ-SCHALLDÄMPFER

Title (fr)
OUTIL PNEUMATIQUE DOTÉ D'UN DISPOSITIF SILENCIEUX DE TYPE HELMHOLTZ

Publication
EP 3278934 B1 20210224 (EN)

Application
EP 16772772 A 20160329

Priority
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• JP 2016060001 W 20160329

Abstract (en)
[origin: EP3278934A1] [Technical Problem] Provided is an air tool configured to reduce noise from an air discharge path. [Solution to Problem] An air tool (10) has a silencer member (40) provided in an air discharge path (30) in a housing (16) along a longitudinal direction of the air discharge path to divide the interior of the air discharge path into resonance chambers (46, 48) extending along the longitudinal direction of the air discharge path and an air discharge passage (50) extending in the longitudinal direction adjacently to the resonance chambers and divided from the resonance chambers to receive and pass exhaust air from a motor chamber (20) to a downstream outlet (30a). The silencer member (40) has openings (54) communicating between the air discharge passage (50) and the resonance chambers (46, 48). The openings (54) and the resonance chambers (46, 48) constitute a sound-damping chamber using Helmholtz resonance.

IPC 8 full level
B25F 5/00 (2006.01); **F01N 1/02** (2006.01)

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Cited by
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