

Title (en)

IMPROVEMENTS TO A GAS-POWERED FASTENING TOOL

Title (de)

PERFEKTIONIERUNGEN FÜR EIN GASFIXIERUNGSWERKZEUG

Title (fr)

PERFECTONNEMENTS POUR UN OUTIL DE FIXATION A GAZ

Publication

EP 3189937 A1 20170712 (FR)

Application

EP 17157754 A 20151218

Priority

- EP 15158537 A 20150310
- EP 15200997 A 20151218

Abstract (en)

[origin: CA2976366A1] The present invention concerns improvements for a gas-powered fixing tool (10). It notably concerns a combustion chamber or precombustion chamber for a gas-powered fixing tool, a working chamber for a gas-powered fixing tool, a fuel gas injection device for a gas-powered fixing tool and a gas-powered fixing tool including one or more of these elements.

Abstract (fr)

La présente invention concerne des perfectionnements pour un outil (10) de fixation à gaz. Elle concerne notamment une chambre de combustion ou de précombustion pour un outil de fixation à gaz, une chambre de travail pour un outil de fixation à gaz, un dispositif d'injection d'un gaz combustible pour un outil de fixation à gaz, et un outil de fixation à gaz comportant un ou plusieurs de ces éléments.

IPC 8 full level

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CPC (source: EP US)

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Citation (applicant)

- EP 0123717 B1 19880420
- EP 1243383 B1 20090513 - ILLINOIS TOOL WORKS [US]
- EP 2087220 B1 20111026 - ILLINOIS TOOL WORKS [US]

Citation (search report)

- [A] EP 1371457 A2 20031217 - ILLINOIS TOOL WORKS [US]
- [A] EP 1484138 A2 20041208 - MAKITA CORP [JP]
- [A] US 2006226193 A1 20061012 - TOULOUSE BRUNO [FR]
- [A] US 2014014703 A1 20140116 - KESTNER KYLE [US], et al

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AU 2018207327 B2 20200326; AU 2018207329 A1 20180809; AU 2018207329 B2 20200326; CA 2976366 A1 20160915;
CA 2976366 C 20190827; CA 3031269 A1 20160915; CA 3031269 C 20200630; CA 3031271 A1 20160915; CA 3031271 C 20210112;
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EP 3189938 B1 20200311; EP 3189939 A1 20170712; EP 3189939 B1 20200311; NZ 734353 A 20190125; NZ 744536 A 20200626;
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NZ 74454216 A 20160229; NZ 74454316 A 20160229; US 2016020000 W 20160229; US 201615553112 A 20160229