

Title (en)

Pneumatically powered fastener driving tool

Title (de)

Pneumatisch betätigtes Eintreibgerät für Befestigungsmittel

Title (fr)

Outil d'enforcement pneumatique pour des moyens de fixation

Publication

EP 0705664 A1 19960410 (EN)

Application

EP 95306808 A 19950927

Priority

US 31918794 A 19941006

Abstract (en)

A pneumatically driven, fastener-driving tool (10), has a housing structure (12) with an upper chamber (16), and a tubular cylinder (30) mounted within it. A driving piston (40) is movable axially within the cylinder (30), between an upper position and a lower position, and a valve member (50) is movable axially within the housing structure (12), above the cylinder (30), between an upper position and a lower position. The valve member (50) has an upper surface facing the upper chamber (16). A sealing member (80) is arranged to provide a seal between the sealing member (80) and the valve member (50) under certain conditions and to provide seal between the sealing member (80) and the cylinder (30) under other conditions. An annular, elastomeric member (100) located within the upper chamber (16) of the housing structure (12) is engaged with the lower surface (18) of the upper portion (14) of the housing structure (12) and with the upper surface of the valve member (50) for biasing the valve member (50) downwards to its lower position, for permitting the valve member to be upwardly moved to its upper position, and for functioning as a bumper between the valve member (50) and the upper portion (14) of the housing structure (12) when the valve member (50) moves upwards. <IMAGE>

IPC 1-7

B25C 1/04

IPC 8 full level

B25C 1/04 (2006.01)

CPC (source: EP KR)

B25C 1/042 (2013.01 - EP); **B25D 9/00** (2013.01 - KR)

Citation (search report)

- [XY] EP 0359974 A2 19900328 - HAUBOLD KIHLEBERG GMBH [DE]
- [Y] DE 2223999 A1 19740131
- [A] EP 0584394 A1 19940302 - MONACELLI UMBERTO [IT]
- [A] US 3392632 A 19680716 - DIETER VOLKMAN
- [A] EP 0205633 A1 19861230 - BEHRENS AG FRIEDRICH JOH [DE]
- [A] EP 0584395 A1 19940302 - MONACELLI UMBERTO [IT]
- [A] FR 2661353 A1 19911031 - SOFRAGRAF IND [FR]

Designated contracting state (EPC)

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DOCDB simple family (application)

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