

Title (en)
PNEUMATIC FASTENER DRIVER

Title (de)
TREIBER FÜR EINE PNEUMATISCHE BEFESTIGUNG

Title (fr)
SYSTÈME DE PROPULSION PNEUMATIQUE D'ÉLÉMENT DE FIXATION

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Application
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Abstract (en)
[origin: WO2015024398A1] A pneumatic fastener driver, contains a cylinder (46), a piston (40), a motor (32), a rack (38), and a magnetic latch. The piston (40) is positioned within the cylinder (46) and moveable between a top-dead-center position and a bottom-dead-center position. The rack (38) is coupled to the piston and operable to drive the piston to move within the cylinder. The rack is driven by the motor via a pinion (36). The magnetic latch emits a magnetic field that magnetically attracts the piston and is capable of holding the piston in the top-dead-center position with a magnetic force, wherein the magnetic latch is adjustable to vary the magnetic force acting on the piston for driving fasteners into a workpiece at different depths. By using the magnetic latch and the length-configurable latch in the pneumatic fastener driver, it enables a convenient method of adjusting the driving depth of the fastener which is driven by the fastener driver. Also, use of the rack and pinion assembly results in reduction of the overall size of the pneumatic fastener driver.

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