

Title (en)

High-pressure trigger with force actuating mechanism using a double-elbow mechanism

Title (de)

Hochdruckauslösehebel mit Kraftbetätigungsmechanismus mit doppeltem Übersetzungshebel

Title (fr)

Gâchette haute pression munie d'un mécanisme de transmission de force à double rapport

Publication

EP 2165767 A1 20100324 (EN)

Application

EP 08016361 A 20080917

Priority

EP 08016361 A 20080917

Abstract (en)

A trigger gun (1) for a high-pressure washer is disclosed, where the trigger gun comprises a handle (2), a valve (3) rigidly supported by the handle and a trigger mechanism. The valve further comprises an actuation element (6) for the opening and closing the valve, and the trigger mechanism provides a cooperation between the trigger and the actuation element. The trigger gun (1) further comprises a rocker arm (8) having a second area or point of contact for cooperation with the actuation element, a primary elbow link (37), and a secondary elbow link (38). The trigger mechanism further comprises a primary mechanical linkage constituted by the handle (2), trigger (4), primary elbow link (37), and rocker arm (8) that are pivotally connected in a closed loop, and a secondary mechanical linkage constituted by the handle (2), trigger (4), secondary elbow link (38), and rocker arm (8) that also are pivotally connected in a closed loop. The primary mechanical linkage is employed when changing the valve from a closed state to a first open state and the secondary mechanical linkage is employed when changing the valve from its first open state to a second open state.

IPC 8 full level

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CPC (source: EP)

B05B 1/304 (2013.01); **B05B 12/002** (2013.01); **B08B 3/028** (2013.01); **B05B 9/01** (2013.01)

Citation (applicant)

- EP 1389495 A1 20040218 - KAERCHER GMBH & CO KG ALFRED [DE]
- DE 19614663 A1 19971016 - SUTTNER GMBH & CO KG [DE]

Citation (search report)

- [A] GB 826699 A 19600120 - WALDEMAR FOERSTNER
- [AD] EP 1389495 A1 20040218 - KAERCHER GMBH & CO KG ALFRED [DE]
- [A] DE 690762 C 19400506 - LEIPZIGER TANGIER WERK AKT GES
- [A] EP 1516674 A2 20050323 - ALTO DEUTSCHLAND GMBH [DE]
- [A] US 5284301 A 19940208 - KIEFFER JOSEPH W [US]
- [A] US 2107686 A 19380208 - SVEND BRAMSEN, et al

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US9993832B2; US2016288148A1; CN105813763A; EP3450025A1; US2016279655A1; CN106232241A; WO2015086085A1; WO2017162282A1

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