

## 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

**B05B 1/30** (2006.01); **B05B 12/00** (2006.01); **B08B 3/02** (2006.01)

## 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

## Cited by

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

## Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

## Designated extension state (EPC)

AL BA MK RS

## DOCDB simple family (publication)

**EP 2165767 A1 20100324; EP 2165767 B1 20111109; AT E532584 T1 20111115**

## DOCDB simple family (application)

**EP 08016361 A 20080917; AT 08016361 T 20080917**