

Title (en)
Hand held lighter

Title (de)
Handfeuerzeug

Title (fr)
Briquet portatif

Publication
EP 1669674 A1 20060614 (EN)

Application
EP 04257728 A 20041213

Priority
EP 04257728 A 20041213

Abstract (en)
In order to provide hand held lighter which is relatively difficult to operate by accident or by children, the hand held lighter comprises safety features. The hand held lighter comprises a fuel container 1, a valve 2 for allowing fuel to be fed from the fuel container 1 to a nozzle 2A, a sparking wheel assembly 5 for contacting a flint and generating sparks for igniting fuel at the nozzle 2A. The valve 2 is operable by a lever 6. The lever 6 comprises, in succession, a valve contacting portion 6C, a fulcrum 6A and an operating portion 6B for contacting an operator's thumb or finger. The distance between the valve and the valve contacting portion 6C and the fulcrum 6A and the distance Y between the fulcrum 6A and the operating portion 6B is 1.1:1 or greater. By placing the operating portion 6B relatively close to the fulcrum, the force which has to be applied by a user is increased compared to conventional lighters. As a result, accidental operation or operation by children is made much harder. Further, the sparking wheel 5 is rigidly connected to side wheels 10 which have smooth edges and which have a diameter which is the same as the sparking wheel 5 or smaller than it. As a result, the force which is required to rotate the sparking wheel is higher, because of the smaller diameter of the side wheel which the user contacts. Further, there is tendency of the user finger or thumb to slip on the side wheels, making operation by children or by accident much harder.

IPC 8 full level
F23Q 2/16 (2006.01); **F23Q 2/34** (2006.01); **F23Q 2/46** (2006.01)

CPC (source: EP)
F23Q 2/46 (2013.01)

Citation (search report)

- [XY] EP 1348909 A1 20031001 - TOP CHAMPION DEV EUROP LTD [GB]
- [Y] US 5090893 A 19920225 - FLORIOT MARCEL [FR]
- [A] WO 03098113 A1 20031127 - HUANG XINHUA [CN], et al

Cited by
EP2026005A1; JP2009047404A

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

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