

Title (en)
A child proof lighter

Title (de)
Feuerzeug mit Kindersicherung

Title (fr)
Briquet à l'épreuve des enfants

Publication
EP 1271055 A2 20030102 (EN)

Application
EP 02013568 A 20020619

Priority
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• CN 02111608 A 20020429

Abstract (en)
A childproof lighter with locker device provided inside the handle, including a movable frame located under the ignition trigger and above lever of the valve unit, which includes a vertical pole portion and a transverse pole, with the upper end of the vertical pole portion neighboring the top wall of the ignition trigger and the lower end neighboring the free end of the lever, and distal tip of head end of the transverse pole portion is comparatively thin and becomes thicker as it gets backward, and under natural status, the thinner portion of the head of the transverse pole portion is clamped between the piezoelectric bonnet of the piezoelectric unit and the protruding portion of the ignition trigger, so that stroke of the aforementioned movable frame is slightly smaller than the piezoelectric ignition stroke of the piezoelectric bonnet; a movable operating part that is fitted onto the handle and can make the above-mentioned movable frame to move toward the side of the piezoelectric unit; a compression spring which is fitted between the top end of the vertical pole portion and the inner side wall of the ignition trigger so as to maintain the movable frame in the backward position. With this invention, travel distance of piezoelectric bonnet is controlled through varying the thickness of the head end of the transverse pole portion fitted to the movable frame so that it can not be entirely pressed down and ignite under abnormal condition to completely prevent any hidden safety trouble.
<IMAGE>

IPC 1-7
F23Q 2/28; **F23Q 2/16**

IPC 8 full level
F23Q 2/16 (2006.01); **F23Q 2/28** (2006.01)

CPC (source: EP)
F23Q 2/164 (2013.01); **F23Q 2/287** (2013.01)

Citation (applicant)
• US 6126437 A 20001003 - LIXIANG MAO [CN], et al
• US 6217313 B1 20010417 - LUO YING WEN [CN]

Cited by
US7244120B2; CN102901120A

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