

Title (en)  
WINDPROOF LIGHTER WITH FLINT IGNITER

Title (de)  
FEUERZEUG MIT WINDGESCHÜTZTER FLAMME UND FEUERSTEINZÜNDER

Title (fr)  
BRIQUET A L'EPREUVE DU VENT DOTE D'UN DISPOSITIF D'ALLUMAGE A SILEX

Publication  
**EP 1446612 A1 20040818 (EN)**

Application  
**EP 02803332 A 20021118**

Priority  

- CN 0200815 W 20021118
- CN 01254775 U 20011119
- CN 02110656 A 20020122
- CN 02137527 A 20021018

Abstract (en)  
[origin: WO03044432A1] This invention uses a kind of windproof lighter with a flint igniter combined with inflammable gas stored in liquidness as fuel. A windproof lighter with flint igniter and comprises: a housing with support frame, a fuel container with at least one outlet valve, an outlet control lever acting on the fuel container's outlet valve, a gas diverting passage on outlet valve, a windproof assembly composed of at least one filter, at least one quick flow nozzle, a gas mixing chamber, at least one diverting nozzle and a combustion chamber, and an igniter lighting up gas in the combustion chamber; characterized in that the igniter is placed on one of the following: a flint ignition structure at a combustion chamber's side, between the combustion chamber and the flint ignition structure, a candle flame outlet on one side of flint ignition structure; a second gas diverting passage is on outlet valve, the second gas diverting passage is connected to the candle flame outlet; the flint ignition structure includes at least one ignition wheel with coarse edge, a flint generating spark after friction with the ignition wheel and a spring pressing flint's sparking end close to igniting wheel; the flint's sparking end is lower than one of the following: a combustion outlet, a support end; a diameter of a central mini-pore of the quick flow nozzle is between 0.05-0.15mm.

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

IPC 8 full level  
**F23Q 2/16** (2006.01); **F23Q 2/50** (2006.01)

CPC (source: EP KR)  
**F23Q 2/16** (2013.01 - KR); **F23Q 2/161** (2013.01 - EP); **F23Q 2/165** (2013.01 - EP); **F23Q 2/50** (2013.01 - EP)

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

DOCDB simple family (publication)  
**WO 03044432 A1 20030530**; AU 2002366054 A1 20030610; EP 1446612 A1 20040818; EP 1446612 A4 20071121; JP 2005509838 A 20050414; KR 20040066824 A 20040727

DOCDB simple family (application)  
**CN 0200815 W 20021118**; AU 2002366054 A 20021118; EP 02803332 A 20021118; JP 2003546025 A 20021118; KR 20047007546 A 20021118