

Title (en)  
KNIFE BLADE OPENING MECHANISM

Title (de)  
ÖFFNUNGSMECHANISMUS FÜR MESSERKLINGE

Title (fr)  
MÉCANISME D'OUVERTURE DE LAME DE COUTEAU

Publication  
**EP 2663430 A4 20140625 (EN)**

Application  
**EP 11855772 A 20111214**

Priority  
• US 201113004178 A 20110111  
• US 2011064793 W 20111214

Abstract (en)  
[origin: WO2012096748A1] A folding knife incorporates an opening assist mechanism that functions to drive the blade from the closed to the open position. A torsion spring is retained axially on the blade axis pin and within a bushing that is stationary relative to the knife handle. One leg of the spring is fixed relative to the handle. The opposite leg of the spring extends through and rides in a partial annular groove in the bushing and acts on the blade as it is moved between the open and closed positions.

IPC 8 full level  
**B26B 1/04** (2006.01)

CPC (source: EP)  
**B26B 1/048** (2013.01)

Citation (search report)  
• [X] FR 2836854 A1 20030912 - BASTIDE SARL [FR]  
• [A] US 2009056146 A1 20090305 - DUEY WES [US]  
• [A] FR 2793182 A3 20001110 - NEVEUX YVES [FR]  
• See references of WO 2012096748A1

Cited by  
WO2020218948A1; US11820028B2; US9943970B2

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
**WO 2012096748 A1 20120719**; CN 103298589 A 20130911; CN 103298589 B 20160601; EP 2663430 A1 20131120; EP 2663430 A4 20140625; EP 2663430 B1 20170118; TW 201236834 A 20120916; TW 201521980 A 20150616; TW I480144 B 20150411; TW I517953 B 20160121

DOCDB simple family (application)  
**US 2011064793 W 20111214**; CN 201180064779 A 20111214; EP 11855772 A 20111214; TW 100147706 A 20111221; TW 104106697 A 20111221