

Title (en)  
SPRING-EJECTED BIOPSY MARKER

Title (de)  
PER FEDER AUSGESTOSSENER BIOPSIEMARKER

Title (fr)  
MARQUEUR DE BIOPSIE ÉJECTÉ PAR RESSORT

Publication  
**EP 3215045 A1 20170913 (EN)**

Application  
**EP 15794802 A 20151106**

Priority  
• US 201414534952 A 20141106  
• US 201562134715 P 20150318  
• US 2015059563 W 20151106

Abstract (en)  
[origin: WO2016073912A1] A device for inserting a marker into tissue at a biopsy site including an elongate shaft that moves conjointly with a plunger, and a spring secured to the distal end of the shaft. The device may comprise a cannula configured to receive a distal end of the shaft, and with a crimp, dimples, or other features formed near the shaft's distal end. The cannula may comprise a lateral aperture where a marker may be ejected from the lumen thereof. A ramp portion may be formed in communication with the lateral aperture, and the ramp portion may comprise a preselected slope that controls the angle at which the marker is ejected.

IPC 8 full level  
**A61B 90/00** (2016.01); **A61B 10/00** (2006.01); **A61B 17/00** (2006.01)

CPC (source: CN EP KR)  
**A61B 10/02** (2013.01 - KR); **A61B 90/39** (2016.02 - CN EP KR); **A61B 10/02** (2013.01 - CN EP); **A61B 2017/00004** (2013.01 - CN EP KR); **A61B 2090/034** (2016.02 - CN EP KR); **A61B 2090/3966** (2016.02 - CN EP KR); **A61B 2090/3987** (2016.02 - CN EP KR)

Citation (search report)  
See references of WO 2016073912A1

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

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**WO 2016073912 A1 20160512**; CN 107106254 A 20170829; EP 3215045 A1 20170913; HK 1242947 A1 20180706; JP 2017538564 A 20171228; JP 6454794 B2 20190116; KR 20170093137 A 20170814

DOCDB simple family (application)  
**US 2015059563 W 20151106**; CN 201580071997 A 20151106; EP 15794802 A 20151106; HK 18102711 A 20180226; JP 2017544551 A 20151106; KR 20177015242 A 20151106