

Title (en)  
DISPENSER WITH OPTICAL KEYING SYSTEM

Title (de)  
SPENDER MIT OPTISCHEM EINGABESYSTEM

Title (fr)  
DISTRIBUTEUR DOTÉ D'UN SYSTÈME DE VERROUILLAGE OPTIQUE

Publication  
**EP 2734096 B1 20151216 (EN)**

Application  
**EP 12735174 A 20120620**

Priority  
• US 201161510355 P 20110721  
• US 2012043223 W 20120620

Abstract (en)  
[origin: US2013020351A1] A dispenser with an optical keying system includes a housing that is configured to carry a removable refill container that contains an amount of material, such as soap, for example. The removable refill container includes microscopic indicia that is visually-imperceptible to a human, which includes an authorization code, as well as a reference code that identifies various attributes associated with the refill container, such as its size, material type, and date of manufacture. Finally, the dispenser includes an optical sensor that is configured to read the authorization code defined by the microscopic or visually-imperceptible indicia to determine whether the refill container is authorized for use with the dispenser.

IPC 8 full level  
**A47K 5/12** (2006.01)

CPC (source: EP US)  
**A47K 5/1214** (2013.01 - EP US); **A47K 5/1217** (2013.01 - EP US); **A47K 2005/1218** (2013.01 - EP US)

Cited by  
DE102017112729A1; WO2018224520A1

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)  
**US 2013020351 A1 20130124**; AU 2012284474 A1 20140306; BR 112014001280 A2 20170221; CA 2842243 A1 20130124;  
CN 103702598 A 20140402; DK 2734096 T3 20160229; EP 2734096 A1 20140528; EP 2734096 B1 20151216; ES 2565201 T3 20160401;  
JP 2014523329 A 20140911; MX 2014000723 A 20140227; PT 2734096 E 20160309; TW 201318588 A 20130516;  
WO 2013012511 A1 20130124

DOCDB simple family (application)  
**US 201213517748 A 20120614**; AU 2012284474 A 20120620; BR 112014001280 A 20120620; CA 2842243 A 20120620;  
CN 201280036155 A 20120620; DK 12735174 T 20120620; EP 12735174 A 20120620; ES 12735174 T 20120620; JP 2014521629 A 20120620;  
MX 2014000723 A 20120620; PT 12735174 T 20120620; TW 101122788 A 20120626; US 2012043223 W 20120620