

Title (en)  
Closure device for print heads

Title (de)  
Verschlusseinrichtung für Druckköpfe

Title (fr)  
Dispositif d'obturation pour têtes d'impression

Publication  
**EP 2669088 B1 20150708 (DE)**

Application  
**EP 13169292 A 20130527**

Priority  
DE 102012010617 A 20120530

Abstract (en)  
[origin: EP2669088A1] The unit has a shutter cylinder (1) i.e. thin walled pipe, for retaining a container and comprising a side wall (2) that surrounds the container. The side wall comprises a printing aperture (8) and an irradiating aperture for printing the container through the apertures and for irradiating the container arranged within the cylinder through the apertures. The apertures are arrangeable in front of a print head or a radiation source. The unit shields nozzles of the print head during treatment of an emitted electromagnetic radiation. An end of the cylinder comprises top and bottom flanges (4, 5).

IPC 8 full level  
**B41J 2/165** (2006.01)

CPC (source: EP US)  
**B41J 2/16505** (2013.01 - EP US); **B41J 3/4073** (2013.01 - EP US); **B41J 3/40733** (2020.08 - EP US); **B41J 11/002** (2013.01 - EP US); **B41J 11/00214** (2021.01 - EP US)

Cited by  
DE102014223523A1; EP3023253A1; US9802424B2

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)  
**EP 2669088 A1 20131204; EP 2669088 B1 20150708**; DE 102012010617 A1 20131205; DE 102012010617 B4 20150305

DOCDB simple family (application)  
**EP 13169292 A 20130527**; DE 102012010617 A 20120530