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SKOLENÍ

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5.11.2015



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☐ 2. Lock and key

★ **Inventor:**  
HOLDA JIRI [CZ]

a mating adapter, a backbone retained within a rear of the housing, a ferrule holder provided within the backbone, and a cam provided between the ferrule holder and the backbone. The ferrule holder includes an alignment key exposed to mate with a cam activation tool to lock rotation of the ferrule relative to other connector components.; The cam includes a cam activation cutout at a front face thereof that mates with a cam activation tool interface enable rotation of the cam between de-activated and activated positions. The activation cutout also receiving the alignment key of the ferrule holder.



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Publication number: 

WO2008014520


Application number: 

DE19971031696

Priority number: 

WO1995US15925

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Institut Pasteur

Inventor(s):

Smith

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lock\* AND key\* AND back\*  
AND cutout\*

lock\* key\* back\* cutout\*

užití náhrad znaků „\*“, „?“, „#“

užití závorek a log. operátorů (AND, OR, NOT) pro logickou stavbu dotazů s více výrazy v řádku

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☐ 1. **Reversible Fiber Optic Connector**

★ Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
KUFFEL GREGORY L [US] MARRS SAMUEL M [US] (+4)	PANDUIT CORP [US]	G02B6/3802 G02B6/3806 G02B6/3846 (+2)	G02B6/36	US2012275749 (A1) 2012-11-01 US8348519 (B2) 2013-01-08	2006-06-13

☐ 2. **Lock and key**

★ Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
HOLDA JIRI [CZ]	ASSA ABLOY RYCHNOV S R O [CZ]		E05B19/02 E05B19/06 E05B27/00 (+3)	SK500952011 (U1) 2012-03-02 SK6235 (Y1) 2012-09-03	2011-10-19

☐ 3. **Lock and key**

★ Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
HOLDA JIRI [CZ]	ASSA ABLOY RYCHNOV [CZ]		E05B19/02 E05B19/06 E05B27/00	CZ20110667 (A3) 2012-05-30 CZ303220 (B6)	2011-10-18

☐ 4. **FASTENING L**

★ Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
VARGHA DAV ADAM BORIS					

**★ 3. Lock and key**

**Inventor:**  
HOLDA JIRI [CZ]

**Applicant:**  
ASSA ABLOY RYCHNOV S R O [CZ]

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### Reversible Fiber Optic Connector

Page bookmark [US2012275749 \(A1\) - Reversible Fiber Optic Connector](#)

Inventor(s): KUFFEL GREGORY L [US]; MARRS SAMUEL M [US]; BROUWER SHAUN P [US]; FITZPATRICK ROBERT T [US]; IRWIN PHILLIP J [US]; WAGNER MATTHEW M [US] ±

Applicant(s): PANDUIT CORP [US] ±

Classification: - international: [G02B6/36](#)


- cooperative: [G02B6/3846](#); [G02B6/3802](#); [G02B6/3806](#); [G02B6/3887](#); [G02B6/3898](#)

Application number: US201213542271 20120705

Priority number(s): US201213542271 20120705; [US201113286877 20111101](#); [US201113010952 20110121](#); [US20100697905 20100201](#); [US20070761756 20070612](#); [US20060423817 20060613](#)

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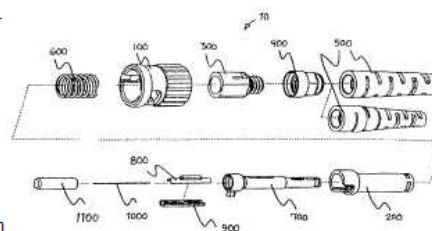
### Abstract of US2012275749 (A1)

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A re-terminable, no-crimp ST-type optical connector assembly includes a spring-loaded ferrule holder assembly and a reusable activation system for termination of the assembly. The optical connector can be terminated by a suitable cam activation tool. The connector includes a housing, such as a bayonet, matable to a mating adapter, a **backbone** retained within a rear of the housing, a ferrule holder provided within the **backbone**, and a cam provided between the ferrule holder and the **backbone**. The ferrule holder includes an alignment **key** exposed to mate with a cam activation tool to **lock** rotation of the ferrule holder relative to other connector components. The cam includes a cam activation **cutout** at a front face thereof that mates with a cam activation tool interface to enable rotation of the cam between de-activated and activated positions, the cam activation **cutout** also receiving the alignment **key** of the ferrule holder therethrough.





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### Description: US2012275749 (A1) — 2012-11-01

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#### Reversible Fiber Optic Connector

##### Description of US2012275749 (A1)

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## Překladač

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#### CROSS-REFERENCE TO RELATED APPLICATIONS

[0001] This application is a continuation of U.S. application Ser. No. 13/ application Ser. No. 13/010,952, filed Jan. 21, 2011, which issued as U.S. application Ser. No. 12/697,905, filed Feb. 1, 2010, which issued as of U.S. application Ser. No. 11/761,756, filed Jun. 12, 2007, which issue continuation of U.S. application Ser. No. 11/423,817, filed Jun. 13, 2006, subject matter of which is hereby incorporated herein by reference in its

#### BACKGROUND

[0002] 1. Field of Invention

[0003] A re-terminable, no-crimp ST-type optical connector assembly includes a spring-loaded release member assembly and a reusable activation system for termination of the assembly. The optical connector can be terminated by a suitable cam activation tool.

[0004] 2. Description of Related Art

[0005] Fiber optic networks are becoming increasingly commonplace in telecommunications applications due to their increased bandwidth and distance capabilities relative to copper networks. However, compared to copper systems, fiber optic cables and connections are well known for their more critical and difficult termination.

[0006] Alignment between abutted glass cores within a fiber optic interface is crucial to the performance of the connection. Additionally, field installation of standard "pot and finish" fiber optic connectors is extremely labor and expertise intensive. In most applications, an installer is required to prepare a fiber end. glue the fiber end in the connector. cleave the excess fiber from the end face of the connector. and polish the

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#### POPIS WO2012071641

Funkcionalizovaná polovodivě polymery pro použití v ekologické fotovolt

Odkazy na aplikace související s

[0001] Tato přihláška nárokuje prospěch Spojených států prozatímní pate 231 podané 30 listopadu 2010, se obsah je zde začleněn odkazem v celé

Oblast techniky

[0002] Předkládaný vynález se týká funkcionalizovaných polovodivě polymerských mezifázových modifikátorů v organické elektronice, konkrétně organické fot

Dosavadní stav techniky

[0003] Anorganické fotovoltaiické zařízení bývají náročné na výrobu, a pro dostatečně efektivní pro široké využití pro produkci elektrické energie alte systémy výroby elektrické energie.



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Claims: US2012275749 (A1) — 2012-11-01

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Reversible Fiber Optic Connector

Claims of US2012275749 (A1)

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Claims tree

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1. What is claimed is: 1. A reversibly terminable stub fiber connector and tool assembly comprising a termination tool, the tool having a base, a first upstanding cradle member, and a tool handle that is a stub fiber connector, the connector having a ferrule holder and a cam enclosing the ferrule member is configured to engage the ferrule holder such that the ferrule holder is fixed in rotation relative to the tool handle, wherein the ferrule holder is configured to engage the cam such that the cam is fixed in rotation to the tool handle, wherein the ferrule holder terminates a stub fiber to a field fiber as well as applies strain relief via a compressive force at the field fiber to the stub fiber.

2. The assembly of claim 1 wherein the cam comprises a cutout and the tool handle comprises a handle being configured to engage the cutout of the cam.

3. The assembly of claim 2 wherein the base further comprises rotation stops configured to limit rotation of the tool handle relative to the base.

4. The assembly of claim 3 further comprising a pair of planks, the planks being enclosed within the tool handle to provide a compressive force on at least a portion of one of the planks when the cam is rotated relative to the tool handle.

5. The assembly of claim 4 wherein the tool further comprises a second upstanding cradle member, the second upstanding cradle member comprising a backbone fixed in rotation relative to the ferrule holder, the second upstanding cradle member being configured to engage the cam such that the cam is fixed in rotation to the tool handle, wherein the ferrule holder terminates a stub fiber to a field fiber as well as applies strain relief via a compressive force at the field fiber to the stub fiber.

6. The assembly of claim 5 wherein the connector further comprises a bayonet.

7. The assembly of claim 1 wherein the ferrule holder has a buffer clamped formed within, the buffer clamp having a lever arm that is biased to extend slightly beyond the outer circumference of the ferrule holder such that rotation of the cam relative to the ferrule holder applies a compressive force to the buffer clamp.

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**Reversible Fiber Optic Connector**

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FIG. 1

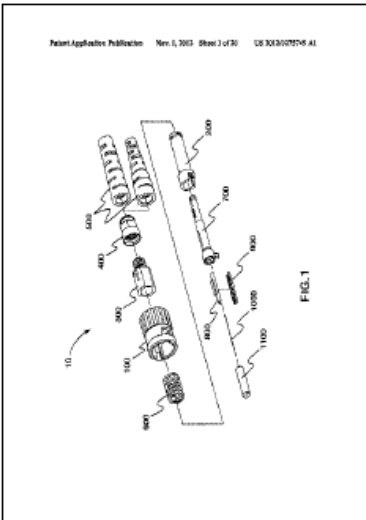


FIG. 2

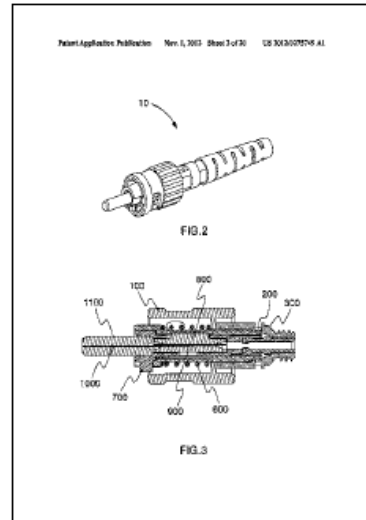


FIG. 3

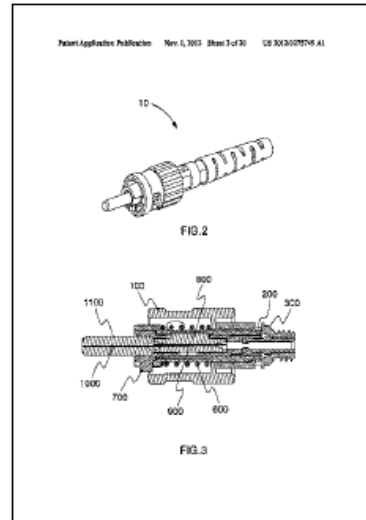
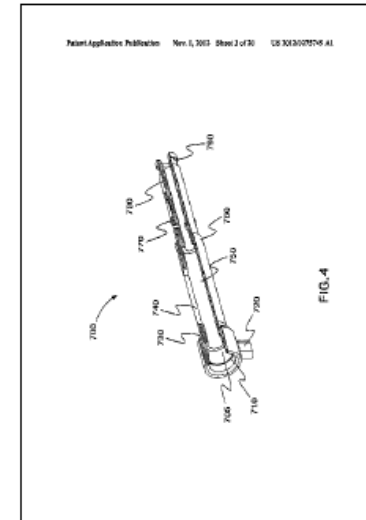


FIG. 4



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Reversible Fiber Optic Connector

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US 20120275749A1

(19) United States

(12) Patent Application Publication

(51) Pub. No.: US 2012/0275749 A1

(43) Pub. Date: Nov. 1, 2012

(54) REVERSIBLE FIBER OPTIC CONNECTOR

(75) Inventors: Gregory L. Kuffel, Plainfield, IL (US); Samuel M. Marrs, Bradley, IL (US); Shaun P. Brouwer, St. John, IN (US); Robert T. Fitzpatrick, New Lenox, IL (US); Phillip J. Irwin, Mokena, IL (US); Matthew M. Wagner, Park Forest, IL (US)

(73) Assignee: PANDUIT CORP., Tinley Park, IL (US)

(21) Appl. No.: 13/542,271

(22) Filed: Jul. 5, 2012

Related U.S. Application Data

(63) Continuation of application No. 13/286,877, filed on Nov. 1, 2011, now Pat. No. 8,231,282, Continuation of application No. 13/010,952, filed on Jan. 21, 2011, now Pat. No. 8,052,333, Continuation of application No. 12/607,005, filed on Feb. 1, 2010, now Pat. No.

Continuation of application No. 11/423,817, filed on Jun. 13, 2006, now Pat. No. 7,241,056.

Publication Classification

(51) Int. Cl. G02B 6/36 (2006.01)

(52) U.S. Cl. 385/81; 385/78

(57) ABSTRACT

A re-terminable, no-crimp ST-type optical connector assembly includes a spring-loaded ferrule holder assembly and a reusable activation system for termination of the assembly. The optical connector can be terminated by a suitable cam activation tool. The connector includes a housing, such as a bayonet, matable to a mating adapter, a backbone retained within a rear of the housing, a ferrule holder provided within the backbone, and a cam provided between the ferrule holder and the backbone. The ferrule holder includes an alignment key exposed to mate with a cam activation tool to lock rotation of the ferrule holder relative to other connector components. The cam includes a cam activation cutout at a front face thereof that mates with a cam activation tool interface to enable rotation of the cam between deactivated and activated



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Claims

United States

Patent Application Publication

Kuffel et al.

Pub. No.: US 2012/0275749 A1

Pub. Date: Nov. 1, 2012

Continuation of application No. 11/923,817, filed on Jan. 13, 2006, now Pat. No. 7,241,856.

Publication Classification

Int. Cl. (2006.01)

G09F 3/16

U.S. Cl. (2006.01)

3581, 355/78

ABSTRACT

A re-terminable, no-strap ST-type optical connector assembly includes a spring-loaded female holder assembly and a reusable activation system for termination of the assembly. The optical connector can be terminated by a suitable cam activation tool. The connector includes a housing, such as a bayonet, suitable to a mating adapter, a backhoe retained within a rear of the housing, a female holder provided within the backhoe, and a cam provided between the female holder and the backhoe. The female holder includes an alignment key disposed to mate with a cam activation tool to lock rotation of the female holder relative to other connector components. The cam includes a cam activation contact at a front face thereof that mates with a cam activation tool interface to enable rotation of the cam between de-activated and activated positions. The cam activation contact also receiving the alignment key of the female holder throughout.

Related U.S. Application Data

(63) Continuation of application No. 13/286,377, filed on Nov. 1, 2011, now Pat. No. 8,231,282, Continuation of application No. 13/010,952, filed on Jan. 21, 2011, now Pat. No. 8,052,333, Continuation of application No. 12/977,002, filed on Feb. 1, 2010, now Pat. No. 7,891,882, Continuation of application No. 11/791,756, filed on Jan. 12, 2007, now Pat. No. 7,654,744.

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13 application(s) for: US2012275749 (A1)

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☐ 1. Reversible fiber optic connector

★

Inventor:  
KUFFEL GREGORY L [US]  
MARRS SAMUEL M [US] (+4)

Applicant:  
PANDUIT CORP [US]

CPC:  
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[G02B6/3806](#)  
[G02B6/3846](#)  
(+2)

IPC:  
G02B6/38

Publication info:  
AT524758 (T)  
2011-09-15

Priority date:  
2006-06-13

☐ 2. Reversible fiber optic connector

★

Inventor:  
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FITZPATRICK ROBERT T, (+4)

Applicant:  
PANDUIT CORP [US]

CPC:  
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[G02B6/3806](#)  
[G02B6/3846](#)  
(+2)

IPC:  
G02B6/38

Publication info:  
CN101105557 (A)  
2008-01-16  
CN101105557 (B)  
2011-04-13

Priority date:  
2006-06-13

☐ 3. Reversible fiber optic connector

★

Inventor:  
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MARRS SAMUEL M (+4)

Applicant:  
PANDUIT CORP

CPC:  
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[G02B6/3846](#)  
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IPC:  
G02B6/36  
G02B6/38

Publication info:  
CN102062907 (A)  
2011-05-18

Priority date:  
2006-06-13

☐ 4. Reversible fiber optic connector

★

Inventor:  
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MARRS SAMUEL M [US] (+4)

Applicant:  
PANDUIT CORP [US]

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IPC:  
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Publication info:  
EP1868019 (A2)  
2007-12-19  
EP1868019 (A3)  
2010-06-23  
EP1868019 (B1)  
2011-09-14

Priority date:  
2006-06-13



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ab	abstract	ab="mouse trap"
pr	priority number	pr=ep20050104792
pn	publication number	pn=ep1000000
ap	application number	ap=jp19890234567
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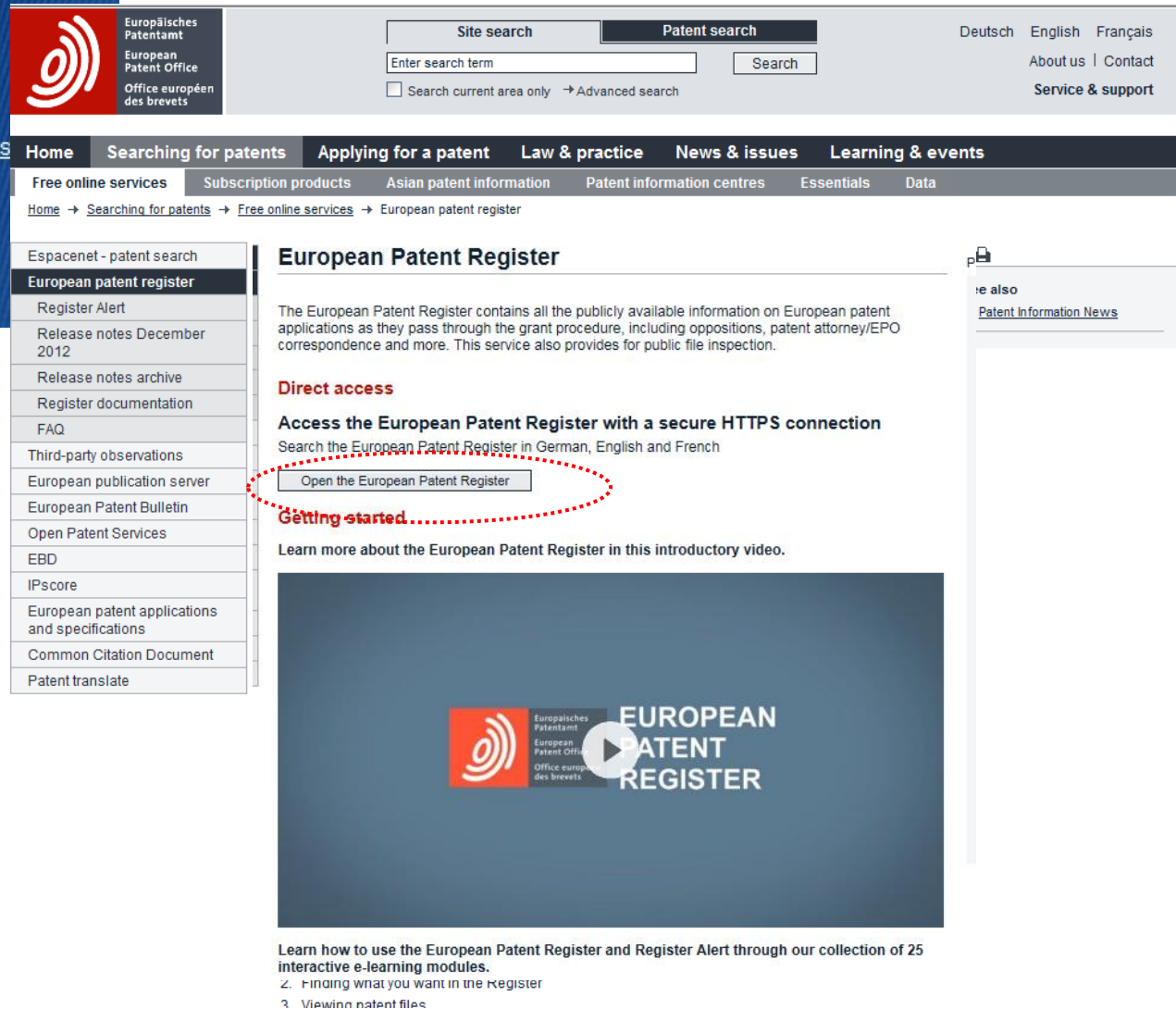
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### **LOCK AND KEY SYSTEM**

	Application No. EP15162183	Publication No. EP2937495	Applicant <b>ASSA</b> <b>ABLOY</b> Sicherheitstechnik GmbH	Representative Meissner, Peter E.	IPC E05B47/00 E05B27/00 E05B19/26
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### **LOCK AND KEY SYSTEM**

	Application No. EP15160964	Publication No. EP2930290	Applicant <b>ASSA</b> <b>ABLOY</b> Sicherheitstechnik GmbH	Representative Meissner, Peter E.	IPC E05B27/00 E05B19/00 E05B35/00
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### **Lock and key system**

	Application No. EP15075006	Publication No. EP2905403	Applicant <b>ASSA</b> <b>ABLOY</b> Sicherheitstechnik GmbH	Representative Meissner, Peter E.	IPC E05B27/00 E05B19/06
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### **LOCK CYLINDER AND KEY SYSTEM**

	Application No. EP14808812	Publication No. WO2015051781	Applicant <b>Assa</b> <b>Abloy</b> Sicherheitstechnik GmbH	Representative ...	IPC E05B47/00
---	-------------------------------	---------------------------------	---	-----------------------	------------------

### **Lock and key system**

	Application No. EP14075045	Publication No. EP2826936	Applicant <b>ASSA</b> <b>ABLOY</b> Sicherheitstechnik GmbH	Representative Meissner, Peter E.	IPC E05B19/08 E05B27/10 E05B35/00
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**Status** Request for examination was made  
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**Most recent event** [i](#) 12.06.2015 New entry: Renewal fee paid  
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

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**EP2775037** - Decoupling mat for an area lining structure that can be covered with lining elements [Right-click to bookmark this link]

<b>Status</b>	The patent has been granted <i>Database last updated on 29.10.2015</i>		
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<b>Applicant(s)</b>	For all designated states Gutjahr, Walter Philipp-Reis-Strasse 5-7 64404 Bickenbach / DE  [2014/37]		
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	<b>No.:</b>	<b>EP2775037</b>	
	<b>Date:</b>	10.09.2014	



EP2775037

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### DECOUPLING MAT FOR AN AREA LINING STRUCTURE THAT CAN BE COVERED WITH LINING ELEMENTS

Application No.	Publication No.	Applicant	IPC
EP14157946	EP2775037	Gutjahr, Walter	E02D5/80 E02D31/02

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Status	Application No.	Publication No.	Proprietor	Invalidation date	Not in force since	Renewal fees last paid	Register last updated
↗ CZ Patent validated	CZ2014-157946	EP2775037	Gutjahr, Walter	---	---	---	13.10.2015
↗ FI Patent not validated	---	2775037	Gutjahr, Walter	---	10.06.2015	---	30.10.2015
↗ LU Patent in force	EP14157946	EP2775037	Gutjahr, Walter	---	---	---	---
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