


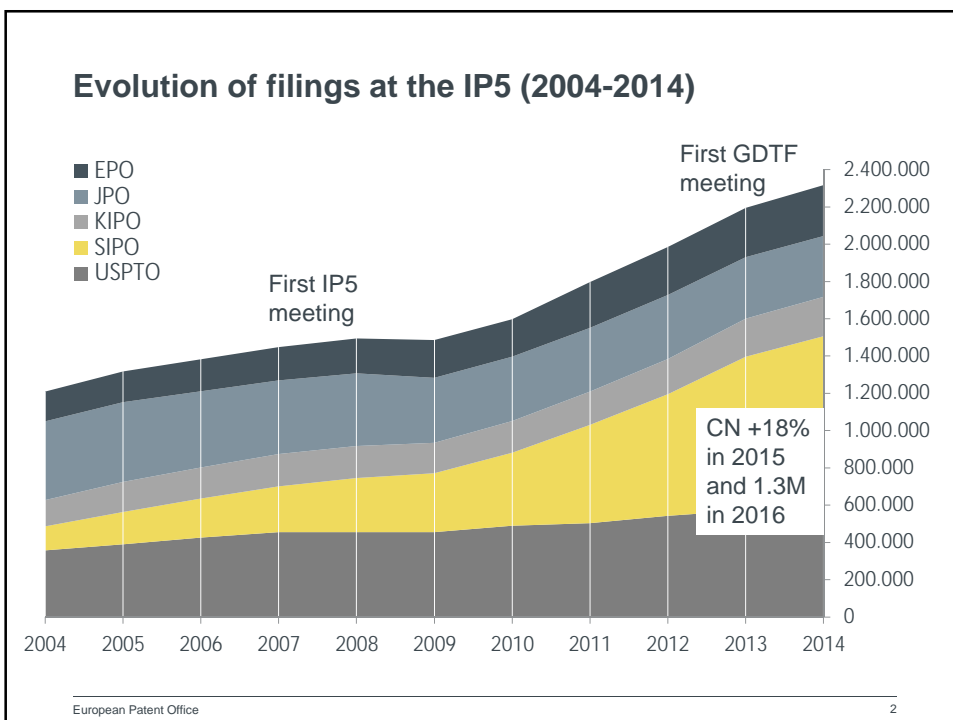
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## Common Citation Document

Origins Status Future



Barnaby HOYAL
Patent Examiner
September 2017



## Challenges and opportunities of the global patent system

Rapidly growing **volumes** of prior art, particularly from Asia

Increasing **complexity**, especially in IT and biotech

Growing patent examination **workload**

Public expectation of highest possible patent examination **quality**

## The IP5 cooperation is a response to the challenges

A cooperation programme between the world's 5 biggest patent offices

- **EPO, JPO, KIPO, SIPO, USPTO**

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- Timeliness and Quality key drivers

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CHINA	02-06-2010	2 762 837	13 263 632	1 619 868
EUROPEAN PATENT OFFICE	20-12-1978	2 551 651	10 132 434	3 282 645
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KOREA	07-01-2006	906 834	2 766 120	81 367
FRANCE	29-08-1969	662 213	2 480 696	304 894
GREAT BRITAIN	04-01-1979	569 759	2 300 073	103 526

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**Patents cited in the search report**

**1. Sequences for detection and identification of methicillin-resistant Staphylococcus aureus (MRSA)**

Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
HULETSKY ANN [CA] GROUX RICHARD [CA]	GENEOMI SCIENCES, INC	C12Q1/689 C12Q2801/158	C07H21/04 C12Q1/68	US2007082340 (A1) 2007-04-12 US7839221 (B2) 2010-11-23	2005-10-11

**2. Method and kit for detecting methicillin-resistant Staphylococcus aureus**

Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
MATSUNAGA HIRONARI [JP] TSUKUMO HEINICHI [JP] (+2)	YAKUNAGA SEYAKU KK [JP]	C12Q1/689 Y10S435/81 Y10S435/883	C12Q1/68 (IPC1-7):C07H 21/04 C12H15/00 (+2)	US5702895 (A) 1997-12-30	1995-01-19

**3. Method for the detection of methicillin resistant Staphylococci**

Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
HIRAMATSU KEICHI [JP] ITO TERUYO [JP] (+3)	KAINOS LAB INC [JP]	C12Q1/689	C12H15/09 C12Q1/68 G01N33/569 (+2)	EP0887424 (A2) 1998-12-30 EP0887424 (A4) 2003-05-02 EP0887424 (B1) 2005-01-11	1996-02-23

**Literature cited in the search report**

**4. New real-time PCR assay for rapid detection of methicillin-resistant Staphylococcus aureus directly from specimens containing a mixture of staphylococci**

Author:	Publication data:	CPC:	Source information:	Publication info:
HULETSKY A ET AL	JOURNAL OF CLINICAL MICROBIOLOGY, 20040501 American Society for Microbiology, US		Vol.42, Nr.5, Page(s): 1875 - 1884	XP003003502

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**New Real-Time PCR Assay for Rapid Detection of Methicillin-Resistant Staphylococcus aureus Directly from Specimens Containing a Mixture of Staphylococci**

A. Huletsky<sup>1,2</sup>, R. Groux<sup>1</sup>, V. Rossbach<sup>1</sup>, M. Gagnon<sup>1</sup>, M. Vaillancourt<sup>1</sup>, M. Bernier<sup>1</sup>, F. Gagnon<sup>1</sup>, K. Trachon<sup>1</sup>, M. Bastien<sup>1</sup>, F. J. Picard<sup>1</sup>, A. van Belkum<sup>4</sup>, M. Couturier<sup>1,2</sup>, P. H. Roy<sup>1,3</sup> and M. C. Bergerson<sup>1,2,\*</sup>

<sup>1</sup> Author Affiliations

**ABSTRACT**

Molecular methods for the rapid identification of methicillin-resistant Staphylococcus aureus (MRSA) are generally based on the detection of an S. aureus-specific gene target and the mecA gene. However, such methods cannot be applied for the direct detection of MRSA from nonsterile specimens such as nasal samples without the previous isolation, capture, or enrichment of MRSA because these samples often contain both coagulase-negative staphylococci (CONS) and S. aureus, either of which can carry mecA. In this study, we describe a real-time multiplex PCR assay which allows the detection of MRSA directly from clinical specimens containing a mixture of staphylococci (<1%): five primers specific to the different staphylococcal cassette chromosome\_mec (SCCmec)II right extremity sequences, including three new sequences, were used in combination with a primer and three molecular beacon probes specific to the S. aureus chromosomal orfX gene sequences located to the right of the SCCmec integration site. Of the 1,657 MRSA isolates tested, 1,656 (99.7%) were detected with the PCR assay, whereas 26 of 569 (4.6%) methicillin-susceptible S. aureus (MSSA) strains were misidentified as MRSA. None of the 62 nonstaphylococcal bacterial species or the 215 methicillin-resistant or 74 methicillin-susceptible CONS strains (MRCONS and MSCONS, respectively) were detected by the assay. The amplification of MRSA was not inhibited in the presence of high copy numbers of MSSA, MRCONS, or MSCONS. The analytical sensitivity of the PCR assay, as evaluated with MRSA-negative nasal specimens containing a mixture of MSSA, MRCONS, and MSCONS spiked with MRSA, was <math>10^3</math> CFU per nasal sample. This real-time PCR assay represents a rapid and powerful method which can be used for the detection of MRSA directly from specimens containing a mixture of staphylococci.

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Topic of Contents

This Article

doi: 10.1128/JCM.42.5.1875-1884.2004

1. Cit. Microbiol. Res. 2004; 42(5): 1875-1884.

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**1. Zahnfrontverblendungskörper**

★ Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
	LAMPL STEPHAN [CH]		A61C13/00 A61C13/087 A61C5/00 (+3)	AT 13375 (U1) 2013-11-15	2011-06-29

**2. Prepolymerized filler in dental restorative composite**

★ Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
ANGELETAKIS CHRISTOS [US] NGUYEN MINH-DANG SON [US] (+1)	KERR CORP [US]	A61K8/0073 A61K6/0088 A61K2/0081 (+3)	A61K8/083 (IPC1-7);A61K6 C08J3/00 (+2)	US2003032693 (A1) 2003-02-13 US9890988 (B2) 2005-05-10	2001-05-16


**3. A portable folding workstation**

★ Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
BODY MERVYN ROY [GB] BODY JANET ANN [GB]	BODY MERVYN ROY [GB] BODY JANET ANN [GB]	A47B23/042 A47B23/043 A47B27/08	A47B23/04 A47B97/08 (IPC1-7);A47B2 7/00 (+1)	GB2355650 (A) 2003-10-02 US9890988 (B2) GB2355650 (B) 2004-04-28	1999-10-25

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REISKE HEINZ R [US] DOLINGER DAVID L [US] (+2)	INTELLIGENT MEDICAL DEVICES INC. [US]	G072G/100 G072G/100 G120L589	US7449289 B2 US2011000914 A2 WO990389 A1	EP2479539 (A2) 2012-07-11	2009-09-04

★ Inventor:	Applicant:	CPC:	Citations:	Publication info:	Priority date:
REISKE HEINZ R [US] DOLINGER DAVID L [US] (+1)	INTELLIGENT MEDICAL DEVICES INC. [US]	G072G/100 G072G/100 G120L589	US7449289 B2 US2011000914 A2 WO990389 A1	EP2479539 (A2) 2012-07-11	2009-09-04

★ Inventor:	Applicant:	CPC:	Citations:	Publication info:	Priority date:
REISKE HEINZ R [US] DOLINGER DAVID L [US] (+2)	INTELLIGENT MEDICAL DEVICES INC. [US]	G120L589	US7449289 B2 US2011000914 A2 WO2007023451 B2	US7449289 B2 US8114591 B2 US8103995 B2	2011-08-18 2009-09-04

★ Inventor:	Applicant:	CPC:	Citations:	Publication info:	Priority date:
REISKE HEINZ R [US] DOLINGER DAVID L [US] (+2)	INTELLIGENT MEDICAL DEVICES INC. [US]	G072G/100 G072G/100 G120L589	US7449289 B2 US2011000914 A2 WO990389 A1	US2011000914 (A1) 2011-10-15	2009-09-04

★ Inventor:	Applicant:	CPC:	Citations:	Publication info:	Priority date:
REISKE HEINZ R [US] DOLINGER DAVID L [US] (+2)	INTELLIGENT MEDICAL DEVICES INC. [US]	G120L589	FR2668489 A1 FR2695637 A1 US2003046839 US2004185478 US200508896 (+15)	WO2011020014 (A2) 2011-05-10 WO2011020014 (A3) 2011-09-29	2009-09-04

★ Inventor:	Applicant:	CPC:	Citations:	Publication info:	Priority date:
REISKE HEINZ R [US] ZHENG CHUNWANG [CH] (+1)	INTELLIGENT MEDICAL DEVICES INC. [US] REISKE HEINZ R [US] (+7)	G072G/100 G072G/100 G120L589	DE19117897 A1 FR2668489 A1 WO20050514897 WO2007023451 B2 (+2)	WO2011020014 (A2) 2012-04-12 WO2011020014 (A3) 2011-10-03 WO2008126261 B2 (+2)	2009-09-04

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17	1	1	US	US20111333952	US20111333952	2011-12-29	3	National Search Report	PAT	US2001144	2004-07-29	WOLLENWEBER GARY CRAIG, et al																																																																																																																																																																																																																																																																				
18	1	2	US	US20060389711	US38971106	2006-03-27	1	National Search Report	PAT	US6704626	2004-03-09	HAMILTON SUNSTRAND CORP [US]																																																																																																																																																																																																																																																																				
19	1	2	US	US20060389711	US38971106	2006-03-27	2	National Search Report	PAT	US6869664	2005-03-22	UNITED TECHNOLOGIES CORP [US]																																																																																																																																																																																																																																																																				
20	1	2	US	US20060389711	US38971106	2006-03-27	3	National Search Report	PAT	US2001144	2004-07-29	WOLLENWEBER GARY CRAIG, et al																																																																																																																																																																																																																																																																				
21	1	2	US	US20060389711	US38971106	2006-03-27	4	National Search Report	PAT	US5036278	1991-06-06	GEN ELECTRIC [US]																																																																																																																																																																																																																																																																				
22	1	2	US	US20060389711	US38971106	2006-03-27	5	National Search Report	PAT	US6283410	2001-09-04	HAMILTON SUNSTRAND CORP [US]																																																																																																																																																																																																																																																																				
23	1	2	US	US20060389711	US38971106	2006-03-27	6	National Search Report	PAT	US6824596	2003-10-21	ALBERTO JOSE, et al																																																																																																																																																																																																																																																																				
24	1	3	GB	GB20070005666	GB0705666	2007-03-23	1	National Search Report	PAT	GB2074654	1981-11-04	ROLLS ROYCE																																																																																																																																																																																																																																																																				
25	1	3	GB	GB20070005666	GB0705666	2007-03-23	2	National Search Report	PAT	GB2127492	1984-04-11	ROCKWELL INTERNATIONAL CORP																																																																																																																																																																																																																																																																				
26	1	3	GB	GB20070005666	GB0705666	2007-03-23	3	National Search Report	PAT	US2004188	2004-09-02	TRUCO JOHN B, et al																																																																																																																																																																																																																																																																				
27	1	3	GB	GB20070005666	GB0705666	2007-03-23	4	National Search Report	PAT	US2001210	2005-09-29	GENERAL ELECTRIC COMPANY																																																																																																																																																																																																																																																																				
28	1	3	GB	GB20070005666	GB0705666	2007-03-23	5	National Search Report	PAT	GB2074654	1981-11-04	ROLLS ROYCE																																																																																																																																																																																																																																																																				
29	1	3	GB	GB20070005666	GB0705666	2007-03-23	6	National Search Report	PAT	GB2127492	1984-04-11	ROCKWELL INTERNATIONAL CORP																																																																																																																																																																																																																																																																				
30	1	3	GB	GB20070005666	GB0705666	2007-03-23	7	National Search Report	PAT	US2004188	2004-09-02	TRUCO JOHN B, et al																																																																																																																																																																																																																																																																				
31	1	3	GB	GB20070005666	GB0705666	2007-03-23	8	National Search Report	PAT	US2001210	2005-09-29	GENERAL ELECTRIC COMPANY																																																																																																																																																																																																																																																																				
32	1	4	FR	FR20070053930	FR0753930	2007-03-20																																																																																																																																																																																																																																																																										
33	1	5	CA	CA20072581822	CA2581822	2007-03-15																																																																																																																																																																																																																																																																										

<http://ccd.fivepoffices.org/CCD-2.1.6/>

European Patent Office

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## On-going developments

- USPTO: **unpublished** classification and citation provision
- SIPO, JPO, KIPO: Provision of **enriched** citations
- USPTO: 2001-2011 “A” publication citations were included in 2015 **2 million** citing documents  
**40 million** us publications cited  
20% increase in US collection

## Conclusion

EPO's GD Service:

All your **file wrappers** from one place

IP5 CCD Service:

All the **citations** from one place

Thank you !

## Examples

<b>CH20110001010</b>	enriched citations CH no gd
<b>WO2012176802</b>	JP prio all IP5 office family members (steel)
<b>JP20140018261</b>	US Priority all IP5 offices touchscreen
<b>CN103438635</b>	CN only GD, Enriched (HVAC)
<b>CN103747941</b>	Blow moulding CN,US,EP (Enriched)
<b>CN103804472</b>	Biotech CN only enriched, NPL