EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	1	12/599869	US-PGPUB; USPAT; USOCR	OR	OFF	2012/07/02 11:50
S2	2	("20030050667" | "5613987").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2012/07/02 11:52
S3	824	606/228.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2012/07/02 11:52
S4	644	suture and ((ultra-high near3 polyethylene) or UHMwPE)	US-PGPUB; USPAT; USOCR	OR	OFF	2012/07/02 11:55
S5	202	suture same ((ultra-high near3 polyethylene) or UHMwPE)	US-PGPUB; USPAT; USOCR	OR	OFF	2012/07/02 11:55
S6	5	suture same ((ultra-high near3 polyethylene) or UHMwPE) same multi-filament	US-PGPUB; USPAT; USOCR	OR	OFF	2012/07/02 11:56
S7	12	suture same ((ultra-high near3 polyethylene) or UHMwPE) and dl/g	US-PGPUB; USPAT; USOCR	OR	OFF	2012/07/02 11:57
S8	1	suture same ((ultra-high near3 polyethylene) or UHMwPE) same dl/g	US-PGPUB; USPAT; USOCR	OR	OFF	2012/07/02 11:57
S9	12	suture same ((ultra-high near3 polyethylene) or UHMwPE) and dl/g	US-PGPUB; USPAT; USOCR	OR	OFF	2012/07/02 11:58
S10	12	suture same ((ultra-high near3 polyethylene) or UHMwPE) and dl/g	US-PGPUB; USPAT; USOCR	OR	OFF	2012/07/02 11:59
S11	1	suture same ((ultra-high near3 polyethylene) or UHMwPE) same dl/g	US-PGPUB; USPAT; USOCR	OR	OFF	2012/07/02 12:00
S12	32	Simmelink.inv.	US-PGPUB; USPAT; USOCR	OR	OFF	2012/07/02 13:26
S13	14	Simmelink.inv. and suture	US-PGPUB; USPAT; USOCR	OR	OFF	2012/07/02 13:26
S14	65	S3 and suture and ((ultra-high near3 polyethylene) or UHMwPE)	US-PGPUB; USPAT; USOCR	OR	OFF	2012/07/02 13:27
S15	33	UHMwPE and spinning and solvent and pigment	US-PGPUB; USPAT; USOCR	OR	OFF	2013/05/22 14:08
S16	26	(suture or filament) and UHMwPE and spinning and solvent and pigment	US-PGPUB; USPAT;	OR	OFF	2013/05/22 14:08

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			USOCR			
S17	2	(suture or filament) and UHMwPE same spinning same solvent same pigment	US-PGPUB; USPAT; USOCR	OR	OFF	2013/05/22 14:08
S18	10	(suture or filament) and UHMwPE and spinning with solvent and pigment	US-PGPUB; USPAT; USOCR	OR	OFF	2013/05/22 14:11
S19	404	spinning same solvent same pigment	US-PGPUB; USPAT; USOCR	OR	OFF	2013/05/22 15:00
S20	1	suture same spinning same solvent same pigment	US-PGPUB; USPAT; USOCR	OR	OFF	2013/05/22 15:01
S21	343	UHMwPE and pigment	US-PGPUB; USPAT; USOCR	OR	OFF	2013/05/22 15:19
S22	49	(suture or filament) and UHMwPE and solvent and pigment	US-PGPUB; USPAT; USOCR	OR	OFF	2013/05/22 15:19
S23	2	(suture or filament) and UHMwPE same solvent same pigment	US-PGPUB; USPAT; USOCR	OR	OFF	2013/05/22 15:21
S24	3	(suture or filament) same UHMwPE same pigment	US-PGPUB; USPAT; USOCR	OR	OFF	2013/05/22 15:22
S25	2	suture same UHMwPE same pigment	US-PGPUB; USPAT; USOCR	OR	OFF	2013/05/22 15:26
S26	2	suture and UHMwPE same pigment	US-PGPUB; USPAT; USOCR	OR	OFF	2013/05/22 15:27
S27	25	suture and UHMwPE and pigment	US-PGPUB; USPAT; USOCR	OR	OFF	2013/05/22 15:27
S28	74	suture and UHMwPE and pigment	US-PGPUB; USPAT; USOCR	OR	ON	2013/05/22 15:27
S29	9	suture and multi-filament and UHMwPE and pigment	US-PGPUB; USPAT; USOCR	OR	OFF	2013/05/22 15:28
S30	6	(US-20080004702-$ or US-20030050667-$ or US-20080287990-$ or US-20090048628-$ or US-20070154707-$).did. or (US-5370911-$).did.	US-PGPUB; USPAT	OR	ON	2013/05/22 15:34
S31	1	S30 and pigment	US-PGPUB; USPAT; USOCR	OR	ON	2013/05/22 15:35
S32	2	suture same UHMwPE same pigment	US-PGPUB; USPAT; USOCR	OR	OFF	2013/05/22 15:35
S33	117	suture with pigment	US-PGPUB; USPAT; USOCR	OR	OFF	2013/05/22 15:36
S34	1	suture and multi-filament with pigment	US-PGPUB; USPAT; USOCR	OR	OFF	2013/05/22 15:36

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S35	9	multi-filament and UHMwPE and pigment	US-PGPUB; USPAT; USOCR	OR	OFF	2013/05/22 15:37
S36	2	multi-filament same UHMwPE and pigment	US-PGPUB; USPAT; USOCR	OR	OFF	2013/05/22 15:37
S37	2	multi-filament and suture with pigment	US-PGPUB; USPAT; USOCR	OR	OFF	2013/05/22 15:43
S38	966	606/228.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2014/06/02 14:49
S39	9	(US-20080004702-$ or US-20030050667-$ or US-20080287990-$ or US-20090048628-$ or US-20070154707-$).did. or (US-5370911-$ or US-4008303-$ or US-5651377-$ or US-6060007-$).did.	US-PGPUB; USPAT	OR	ON	2014/07/09 13:15
S40	4	S39 and gel	US-PGPUB; USPAT; USOCR	OR	ON	2014/07/09 13:15
S41	1	"05076531.2"	US-PGPUB; USPAT; USOCR	OR	ON	2014/07/09 13:17
S42	1	"05076531.2"	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2014/07/09 13:17
S43	1	"05076531.2"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/07/09 13:17
S44	4	S39 and intrinsic	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/07/09 13:19
S45	3835	suture and pigment and (weight or wt)	US-PGPUB; USPAT; USOCR	OR	ON	2014/08/12 16:47
S46	576	suture and pigment same (weight or wt)	US-PGPUB; USPAT; USOCR	OR	ON	2014/08/12 16:47
S47	84	suture same pigment same (weight or wt)	US-PGPUB; USPAT; USOCR	OR	ON	2014/08/12 16:47
S48	2	"11069705"	US-PGPUB; USPAT; USOCR	OR	ON	2014/08/12 16:53
S49	415801	suture same pigment same inorganic pigment	US-PGPUB; USPAT; USOCR	OR	ON	2014/08/12 17:08
S50	24	suture same pigment same inorganic	US-PGPUB;	OR	ON	2014/08/12

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			USPAT; USOCR			17:09
S51	17	suture same pigment with inorganic	US-PGPUB; USPAT; USOCR	OR	ON	2014/08/12 17:13
S52	1	suture same pigment with chromium with oxide	US-PGPUB; USPAT; USOCR	OR	ON	2014/08/12 17:31
S53	4	suture same pigment same chromium with oxide	US-PGPUB; USPAT; USOCR	OR	ON	2014/08/12 17:32
S54	4	suture same pigment same chromium same oxide	US-PGPUB; USPAT; USOCR	OR	ON	2014/08/12 17:33
S55	46	suture same chromium same oxide	US-PGPUB; USPAT; USOCR	OR	ON	2014/08/12 17:33
S56	31	suture same chromium with oxide	US-PGPUB; USPAT; USOCR	OR	ON	2014/08/12 17:33
S57	6	suture with chromium with oxide	US-PGPUB; USPAT; USOCR	OR	ON	2014/08/12 17:33
S58	16242	pigment same chromium same oxide	US-PGPUB; USPAT; USOCR	OR	ON	2014/08/12 17:35
S59	13398	pigment with chromium with oxide	US-PGPUB; USPAT; USOCR	OR	ON	2014/08/12 17:36
S60	1	suture same pigment with chromium with oxide	US-PGPUB; USPAT; USOCR	OR	ON	2014/08/12 17:36
S61	59	suture and pigment with chromium with oxide	US-PGPUB; USPAT; USOCR	OR	ON	2014/08/12 17:36
S62	31	filament same pigment with chromium with oxide	US-PGPUB; USPAT; USOCR	OR	ON	2014/08/12 17:46
S63	3	filament with pigment with chromium with oxide	US-PGPUB; USPAT; USOCR	OR	ON	2014/08/12 17:48
S64	6	aluminum-chromium-cobalt	US-PGPUB; USPAT; USOCR	OR	ON	2014/08/12 18:08
S65	4	aluminum-chromium-cobalt with oxide	US-PGPUB; USPAT; USOCR	OR	ON	2014/08/12 18:08
S66	9584	aluminum with chromium with cobalt with oxide	US-PGPUB; USPAT; USOCR	OR	ON	2014/08/12 18:13
S67	83	(suture or filament) same aluminum with chromium with cobalt with oxide	US-PGPUB; USPAT; USOCR	OR	ON	2014/08/12 18:13
S68	15	(suture or filament) with aluminum with chromium with cobalt with oxide	US-PGPUB; USPAT; USOCR	OR	ON	2014/08/12 18:14
S69	253	UHMWPE and intrinsic and viscosity and	US-PGPUB;	OR	ON	2014/08/12

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		dl/g	USPAT; USOCR			18:30
S70	132	UHMWPE same intrinsic same viscosity same dl/g	US-PGPUB; USPAT; USOCR	OR	ON	2014/08/12 18:30
S71	132	UHMWPE same intrinsic with viscosity same dl/g	US-PGPUB; USPAT; USOCR	OR	ON	2014/08/12 18:30
S72	88	UHMWPE same intrinsic with viscosity with dl/g	US-PGPUB; USPAT; USOCR	OR	ON	2014/08/12 18:30
S73	70	UHMWPE with intrinsic with viscosity with dl/g	US-PGPUB; USPAT; USOCR	OR	ON	2014/08/12 18:30
S74	24	suture and (UHMWPE with intrinsic with viscosity with dl/g)	US-PGPUB; USPAT; USOCR	OR	ON	2014/08/12 18:30
S75	1	suture same (UHMWPE with intrinsic with viscosity with dl/g)	US-PGPUB; USPAT; USOCR	OR	ON	2014/08/12 18:31
S76	29	multifilament and (UHMWPE with intrinsic with viscosity with dl/g)	US-PGPUB; USPAT; USOCR	OR	ON	2014/08/12 18:34
S77	4	2004/0267313	US-PGPUB; USPAT; USOCR	OR	OFF	2014/08/14 14:45
S78	1	"20040267313"	US-PGPUB; USPAT; USOCR	OR	OFF	2014/08/14 14:46
S79	1	"5,665,062".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2014/08/14 15:09
S80	183	A61L17/04.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2015/03/23 12:45
S81	339	D01F1/04.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2015/03/23 12:45
S82	777	D01F6/04.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2015/03/23 12:45
S83	250	D07B1/025.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2015/03/23 12:45
S84	183	A61L17/04.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2015/03/23 12:46
S85	5436	C08L23/06.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2015/03/23 12:46
S86	163	D07B2205/2014.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2015/03/23 12:46
S87	163	D07B2205/2014.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2015/03/23 12:46
S88	539	D07B2801/10.cpc.	US-PGPUB;	OR	OFF	2015/03/23

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			USPAT; USOCR			12:46
S89	7175	S80 S81 S82 S83 S84 S85 S86 S87 S88	US-PGPUB; USPAT; USOCR	OR	OFF	2015/03/23 12:46
S90	114	S89 and suture and ((ultra-high near3 polyethylene) or UHMwPE)	US-PGPUB; USPAT; USOCR	OR	OFF	2015/03/23 12:47
S91	15	S89 and suture same ((ultra-high near3 polyethylene) or UHMwPE) and dl/g	US-PGPUB; USPAT; USOCR	OR	OFF	2015/03/23 12:47
S92	20	(US-20080004702-$ or US-20030050667-$ or US-20080287990-$ or US-20090048628-$ or US-20070154707-$ or US-20080124368-$ or US-20060045899-$ or US-20050208096-$ or US-20060263432-$ or US-20060084745-$ or US-20090012251-$ or US-20040267313-$).did. or (US-5370911-$ or US-4008303-$ or US-5651377-$ or US-6060007-$).did. or (US-3698853-$ or US-3166073-$ or US-3565652-$ or US-3057040-$).did.	US-PGPUB; USPAT; USOCR	OR	ON	2015/03/23 13:08
S93	8	S92 and mass	US-PGPUB; USPAT; USOCR	OR	ON	2015/03/23 13:08
S94	187	A61L17/04.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2015/09/09 13:50
S95	344	D01F1/04.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2015/09/09 13:50
S96	778	D01F6/04.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2015/09/09 13:50
S97	259	D07B1/025.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2015/09/09 13:50
S98	187	A61L17/04.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2015/09/09 13:50
S99	5612	C08L23/06.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2015/09/09 13:50
S100	172	D07B2205/2014.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2015/09/09 13:50
S101	172	D07B2205/2014.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2015/09/09 13:50
S102	556	D07B2801/10.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2015/09/09 13:50
S103	7381	S94 S95 S96 S97 S98 S99 S100 S101 S102	US-PGPUB; USPAT; USOCR	OR	OFF	2015/09/09 13:50
S104	17	S103 and suture same ((ultra-high	US-PGPUB;	OR	OFF	2015/09/09

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		near3 polyethylene) and UHMwPE) and dl/g	USPAT; USOCR			13:50
S105	3	S103 and suture same dl/g	US-PGPUB; USPAT; USOCR	OR	OFF	2015/09/09 15:00
S106	62	("2212772" | "2226529" | "3091015" | "3124632" | "3156750" | "3303169" | "3311691" | "3345445" | "3361859" | "3379810" | "3436450" | "3441642" | "3562382" | "3577500" | "3739055" | "3792010" | "4009511" | "4043344" | "4047533" | "4338277" | "4374797" | "4446299" | "4461740" | "4470941" | "4504432" | "4504545" | "4542063" | "4550730" | "4578451" | "4621021" | "4624816" | "4701377" | "4758472" | "4839132" | "4859389" | "5007922" | "5102419" | "5102420" | "5147382" | "5156788" | "5217485" | "5225485" | "5279783").PN. OR ("5349044").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2015/09/09 15:00
S107	0	S106 and suture same dl/g	US-PGPUB; USPAT; USOCR	OR	OFF	2015/09/09 15:01
S108	85	(gel adj spun) with (suture or filament)	US-PGPUB; USPAT; USOCR	OR	OFF	2015/09/10 13:12
S109	26	suture and (UHMWPE with intrinsic with viscosity with dl/g)	US-PGPUB; USPAT; USOCR	OR	ON	2015/09/10 13:15
S110	343	suture and (intrinsic with viscosity with dl/g)	US-PGPUB; USPAT; USOCR	OR	ON	2015/09/10 13:20
S111	317	S110 not S109	US-PGPUB; USPAT; USOCR	OR	ON	2015/09/10 13:20
S112	464	(suture or filament) same (intrinsic with viscosity with dl/g)	US-PGPUB; USPAT; USOCR	OR	ON	2015/09/10 13:22
S113	3	wo-2005066401-$.did.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/09/10 13:47
S114	1913	polyethylene same (chromium adj oxide)	US-PGPUB; USPAT; USOCR	OR	ON	2015/09/10 15:02
S115	2	polyethylene same (aluminum adj chromium adj oxide)	US-PGPUB; USPAT; USOCR	OR	ON	2015/09/10 15:02
S116	0	(suture or filament) same (aluminum adj chromium adj oxide)	US-PGPUB; USPAT; USOCR	OR	ON	2015/09/10 15:02
S117	14	(suture or filament) and (aluminum adj chromium adj oxide)	US-PGPUB; USPAT; USOCR	OR	ON	2015/09/10 15:02
S118	11	(pigment or color) and (suture or	US-PGPUB;	OR	ON	2015/09/10

		filament) and (aluminum adj chromium adj oxide)	USPAT; USOCR			15:03
S119	1	(pigment or coloring) and (suture or filament) and (aluminum adj chromium adj oxide)	US-PGPUB; USPAT; USOCR	OR	ON	2015/09/10 15:03
S120	51	(pigment or coloring) and (aluminum adj chromium adj oxide)	US-PGPUB; USPAT; USOCR	OR	ON	2015/09/10 15:04
S121	2191	(suture or filament) and (chromium adj oxide)	US-PGPUB; USPAT; USOCR	OR	ON	2015/09/11 12:21
S122	14	(suture or filament) and (aluminum adj chromium adj oxide)	US-PGPUB; USPAT; USOCR	OR	ON	2015/09/11 12:21
S123	52	(suture or filament or fiber or yarn) and (aluminum adj chromium adj oxide)	US-PGPUB; USPAT; USOCR	OR	ON	2015/09/11 12:21
S124	23	(suture or filament) with (chromium adj oxide)	US-PGPUB; USPAT; USOCR	OR	ON	2015/09/11 12:23
S125	82	(pigment or color) and (aluminum adj chromium adj oxide)	US-PGPUB; USPAT; USOCR	OR	ON	2015/09/11 12:25
S126	25908	(pigment or color) and (chromium adj oxide)	US-PGPUB; USPAT; USOCR	OR	ON	2015/09/11 12:27
S127	12145	(pigment or color) with (chromium adj oxide)	US-PGPUB; USPAT; USOCR	OR	ON	2015/09/11 12:27
S128	4870	(suture or filament or fiber or yarn) and (pigment or color) with (chromium adj oxide)	US-PGPUB; USPAT; USOCR	OR	ON	2015/09/11 12:28
S129	359	(suture or filament or fiber or yarn) same (pigment or color) with (chromium adj oxide)	US-PGPUB; USPAT; USOCR	OR	ON	2015/09/11 12:28
S130	158	(suture or filament or fiber or yarn) with (pigment or color) with (chromium adj oxide)	US-PGPUB; USPAT; USOCR	OR	ON	2015/09/11 12:28
S131	229	(aluminum adj chromium adj oxide)	US-PGPUB; USPAT; USOCR	OR	ON	2015/09/11 12:32
S132	0	suture and (aluminum adj chromium adj oxide)	US-PGPUB; USPAT; USOCR	OR	ON	2015/09/11 12:32
S133	0	yarn and (aluminum adj chromium adj oxide)	US-PGPUB; USPAT; USOCR	OR	ON	2015/09/11 12:32
S134	41	fiber and (aluminum adj chromium adj oxide)	US-PGPUB; USPAT; USOCR	OR	ON	2015/09/11 12:33
S135	3	fiber with (aluminum adj chromium adj oxide)	US-PGPUB; USPAT; USOCR	OR	ON	2015/09/11 12:33
S136	5	(aluminum adj chromium adj cobalt adj oxide)	US-PGPUB; USPAT; USOCR	OR	ON	2015/09/11 13:01
S137	2	(("20110319932") or	US-PGPUB;	OR	OFF	2015/09/11

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		("20100274282")).PN.	USPAT; USOCR			13:02
S138	1	("20080027534").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2015/09/11 13:03
S139	113	chromium-cobalt-aluminum adj oxide	US-PGPUB; USPAT; USOCR	OR	ON	2015/09/11 13:05
S140	13	("606".clas. or "623".clas.) and chromium-cobalt-aluminum adj oxide	US-PGPUB; USPAT; USOCR	OR	ON	2015/09/11 13:07

EAST Search History (Interference)

<This search history is empty>

10/29/2015 3:00:14 PM
C:\Users\sdang\Documents\EAST\Workspaces\12599869.wsp

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	12599869	SIMMELINK ET AL.
	Examiner	Art Unit
	SON DANG	3773

CPC- SEARCHED		
Symbol	Date	Examiner
A61L17/04	4/6/2015	SD
D01F1/04	4/6/2015	SD
D01F6/04	4/6/2015	SD
D07B1/025	4/6/2015	SD
A61L17/04	4/6/2015	SD
C08L23/06	4/6/2015	SD
D07B2205/2014	4/6/2015	SD
D07B2801/10	4/6/2015	SD

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner
606	228 with text search	7/2/2012	SD

SEARCH NOTES		
Search Notes	Date	Examiner
East Search History	7/2/2012	SD
forward and backward citations	7/2/2012	SD
PLUS SEARCH	7/2/2012	SD
INVENTOR SEARCH	7/2/2012	SD
Consult with SPE Corrine McDermott for rejection	7/2/2012	SD
Consult with Leo Tentoni, Erin Snelting and Jeffrey Wollschlager in class 264	7/2/2012	SD
Consult with Cachet Sellman in class 427	7/2/2012	SD
UPDATED SEARCH	5/23/2013	SD
Consult with SPE Corrine McDermott	5/23/2013	SD
Consult with Primary Julian Woo for Product by Process rejections	6/2/2014	SD
updated search	6/2/2014	SD

SEARCH NOTES		
Search Notes	**Date**	**Examiner**
updated search	8/12/2014	SD
Consult with Primary Tuan Nguyen for rejections.	8/12/2014	SD
Updated search	9/11/2015	SD
Consult with Primary Greg Anderson for search and rejections	9/11/2015	SD
Consult with SPE Elizabeth Houston for sending the rejections	10/29/2015	SD

INTERFERENCE SEARCH			
US Class/ CPC Symbol	**US Subclass / CPC Group**	**Date**	**Examiner**

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of	Confirmation No. **3921**
SIMMELINK et al.	Atty. Ref.: **BHD-4662-1326**
Appl. No. **12/599,869**	Examiner: **DANG, Phong Son H.**
Filed: **01/14/2010**	Art Unit: **3773**

For: **COLORED SUTURE**

* * * * * * * * * * *

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Date: April 5, 2016

AMENDMENT V

Sir:

The following comments are intended to be fully responsive to the non-final Official Action dated November 5, 2015, petition being hereby made for a time extension of two (2) months, up to and including April 5, 2016.

AMENDMENT TO THE CLAIMS:

The following claim set replaces all prior versions, and listings, of claims in the application:

1.-15. (canceled)

16. (currently amended) A colored suture consisting of multi-filamentary yarn and at most 20 mass% of other components, wherein at least 50 mass% of the yarn consists of colored gel-spun filaments obtained by spinning a mixture containing ~~consisting of~~ ultra-high molecular weight polyethylene (UHMwPE) having an intrinsic viscosity (IV) of between about 8 and 40 dl/g, a spin solvent and a pigment, wherein the colored filaments consists of UHMwPE, between 0.1 and 7.0 wt.% of an inorganic chromium oxide-containing pigment, a residual amount of less than about 100 ~~800~~ ppm of [[a]]the spin solvent, and less than 1000 ppm of further constituents.

17. (currently amended) The colored suture according to claim 16, wherein the amount of the inorganic pigment present in the filaments of the suture is between 0.3 wt.% and 5.0 wt. %.

18. (currently amended) The colored suture according to claim 16 or 17, wherein the amount of the inorganic pigment present in the filaments of the suture is lower than 2.0 wt. %.

19. (canceled)

20. (currently amended) The colored suture according to claim 16, wherein the inorganic pigment is aluminum-chromium-cobalt oxide.

21.-23. (canceled)

24. (currently amended) The colored suture according to claim 16, wherein the filaments contain a residual amount of less than 60 ppm of the spin solvent.

25. (currently amended) The colored suture according to claim 16, wherein the filaments contain less than 500 ppm of further constituents.

26. (currently amended) The colored suture according to claim 16, wherein the filaments contain less than 200 ppm of further constituents.

27. (currently amended) The colored suture according to claim 16, wherein at least 60 mass% of the yarn consists of said gel-spun filaments.

28. (currently amended) The colored suture according to claim 16, wherein at least 90 mass% of the yarn consists of said gel-spun filaments.

29. (currently amended) The colored suture according to claim 16, wherein the suture consists of the at least one multi-filamentary yarn and at most 10 mass% of other components.

30. (currently amended) The colored suture according to claim 16, wherein the suture consists of the at least one multi-filamentary yarn and at most 5 mass% of other components.

31. (currently amended) The colored suture according to claim 16, wherein the suture consists of said gel-spun filaments.

REMARKS

Favorable reconsideration and allowance of this application are requested.

1. Discussion of Amendments

Claim 16 has been amended to enhance clarity and better define the invention by

- specifying that the suture is a *colored* suture, and comprises *colored* gel-spun filaments, as fully based on the specification as filed;
- defining that the colored filaments are obtained by gel spinning of a mixture comprising UHMwPE, spin solvent and pigment; as fully based on the specification as filed, e.g. at [p2 l19-22];
- combining with former claim 23, as supported by e.g. [p4 l9-14] and [p4 l27-31]. Claims 21-23 have thus been canceled as redundant.

The preamble expressions of all dependent claims have been amended so as to be commensurate to that employed for claim 16.

Following entry of this amendment, therefore, claims 16-18, 20 and 24-31 will remain pending herein for consideration. As will become evident from the following discussion, all such pending claims are in condition for allowance.

2. Claim Rejections 35 USC §103

All prior pending claims attracted a rejection under 35 USC §103(a) for allegedly being unpatentably obvious. Specifically, claims 16-18 and 20-31 were rejected under 35 USC §103(a) as allegedly being unpatentably obvious over Simmelink et al. (WO 2005/066401 in view of Edwin et al. (US 2008/0027534). Applicants respectfully submit that neither Simmelink et al nor Edwin et al is appropriate as a reference against the herein pending claims.

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A. The combination of cited references together with the knowledge of one having ordinary skill in the art do not teach or suggest all features of the claimed invention.

It is of course axiomatic that, in order to establish *prima facie* obviousness of a claimed invention, all the claim features must be taught or suggested by the prior art. In this regard, MPEP §2143.03 requires the "consideration" of every claim feature in an obviousness determination. To render claim 1 unpatentable, however, the Office must do more than merely "consider" each and every feature for this claim. Instead, the asserted combination of the patents to Simmelink et al and Edwin et al must also teach or suggest *each and every claim feature*. See *In re Royka*, 490 F.2d 981, 180 USPQ 580 (CCPA 1974) (emphasis added) (to establish prima facie obviousness of a claimed invention, all the claim features must be taught or suggested by the prior art).

Indeed, as the Board of Patent Appeal and Interferences has confirmed, a proper obviousness determination requires that an Examiner make "a searching comparison of the claimed invention – including all its limitations – with the teaching of the prior art." See *In re Wada and Murphy*, Appeal 2007-3733, citing In re Ochiai, 71 F.3d 1565, 1572 (Fed. Cir. 1995) (emphasis in original). Further, the necessary presence of all claim features is axiomatic, since the Supreme Court has long held that obviousness is a question of law based on underlying factual inquiries, including … ascertaining the differences between the claimed invention and the prior art. Graham v. John Deere Co., 383 U.S. 1, 148 USPQ 459 (1966) (emphasis added). Indeed, Applicant submits that this is why Section 904 of the MPEP instructs Examiners to conduct an art search that covers "the invention as described and claimed." (emphasis added).

Applicant also respectfully directs attention to MPEP § 2143, the instructions of which buttress the conclusion that obviousness requires at least a suggestion of all of the features of a claim, since the Supreme Court in KSR Int'l v. Teleflex Inc. stated that "there must be some articulated reasoning with some rational underpinning to support the legal conclusion of obviousness." KSR Int'l v. Teleflex Inc., 127 S. Ct. 1727, 1741 (2007) (quoting In re Kahn, 441 F.3d 977, 988 (Fed. Cir. 2006).

In sum, it remains well-settled law that obviousness requires at least a suggestion of all of the features in a claim. See *In re Wada and Murphy*, citing *CFMT, Inc. v. Yieldup Intern. Corp.*, 349 F.3d 1333, 1342 (Fed. Cir. 2003) and *In re Royka*, 490 F.2d 981, 985 (CCPA 1974).

It appears to be the Examiner's contention that all claim elements except for the "between 0.1 and 7.0 wt.% of an inorganic chromium oxide-containing pigment" are disclosed by Simmelink. The claim element of between 0.1 and 7.0 wt.% of an inorganic chromium oxide-containing pigment is allegedly disclosed by Edwin. The Examiner contends that one of ordinary skill in this art would obviously '*employ pigments containing aluminum-chromium-cobalt oxide as taught by Edwin into the multi yarn of Simmelink et al. as a substitute one known method of dying for another*'.

However, what is claimed is not a material that is *post-colored* using a dye solution or other colored component, but instead is a colored suture consisting of multi-filamentary yarn and at most 20 mass% of other components, wherein at least 50 mass% of the yarn consists of colored gel-spun filaments that have been obtained by spinning a mixture containing ultra-high molecular weight polyethylene (UHMwPE) having an intrinsic viscosity (IV) of between about 8 and 40 dl/g, a spin solvent and a pigment, and which colored filaments consist of

- UHMwPE ,
- between 0.1 and 7.0 wt.% of an inorganic chromium oxide-containing pigment,
- a residual amount of less than about 100 ppm of a spin solvent, and
- less than 1000 ppm of further constituents.

The inorganic chromium oxide-containing pigment is physically part of the composition used to form the yarn via the gel spinning process and is thus incorporated *into the filaments* forming part of the yarn that (at least partly) constitutes the colored

suture. The yarn is a structural part of the suture and at least partly determines its strength or load-bearing properties.

The Simmelink et al reference has also been discussed previously during prosecution as describing a process of producing a high-strength multifilament UHMwPE yarn by gel spinning. It was noted that the UHMwPE in the mixture used for spinning may further contain small amounts of customary additives, including colorants. Simmelink provides no further information on methods of making colored UHMwPE yarn or on type of suitable colorants, and also in the experiments no colorants like a dye – which is soluble in the polymer- or a pigment - which is present as solid particles in the polymer - were applied.

Simmelink et al. at least does not disclose a suture comprising UHMwPE filaments that contain an *inorganic aluminum-chromium-cobalt oxide pigment* in an amount of between 0.1 and 7.0 wt.%.

Simmelink et al. also does not provide the skilled person with any guidance on how to make such a product containing colored UHMWPE yarn.

The cited secondary reference to Edwin et al. fails to cure these deficiencies. Edwin relates to vascular grafts made from expanded polytetrafluoroethylene (ePTFE), more specifically it concerns making such grafts self-sealing after puncturing the graft with a needle during hemodialysis treatments, and preferably also kink resistant, by providing an elastomeric polyurethane coating as a sealant layer on the ePTFE graft.

Edwin mentions in paragraph [0087] that such graft can further comprise one or more *colored longitudinal orientation lines along an outer surface thereof*, to aid a surgeon in properly aligning the vascular graft during implantation. Such orientation lines have preferably a contrasting color, and may be applied by a printing process using an ink composition that adheres to the surface. It is only within the context of such ink does Edwin disclose a chromium-oxide pigment at paragraph [0088], which is reproduced below in its entirety:

> **[0088]** In the event that the outer surface of the self-sealing vascular graft includes ePTFE, special ink compositions are necessary to ensure adherence of the line or lines on the ePTFE surface. In one embodiment, an ink composition for an orientation line for an ePTFE surface includes a suitable polymeric binder that adheres well to an ePTFE surface, a biocompatible dye or pigment, and a solvent that dissolves a polymeric binder. In addition, the ink composition may contain inorganic white solid materials such as titanium dioxide (to adjust ink shade) and a viscosity modifier. Although many pigments or dyes may be used to make the orientation line, pigments or dyes that have a long history of human implantation are most preferred. The preferred color compounds in the ink include, but are not limited to: (Phthalocyaninato(2-)) copper, D&C Blue No. 9, D&C Green No. 5, Chlorophyllin-copper complex, oil soluble, Chromium-cobalt-aluminum oxide, Ferric ammonium citrate, D&C Blue No. 5, FD&C Blue No. 2, D&C Green No. 6, Titanium dioxide, carbon, Iron oxide, and the like. (Phthalocyaninato(2-)) copper is the most preferred blue compound. The color of the ink (e.g., black, blue, etc.) may be determined by viewing under a light having a temperature of about 6500 degrees Kelvin.

Edwin teaches that an ePTFE graft surface can be provided with an orientation line on the surface of the graft via printing with an ink. The ink composition can contain various pigments or dyes, a suitable polymeric binder, and a solvent that dissolves the polymeric binder. In a list of suitable pigments and dyes for use in the ink, a chromium-cobalt-aluminum oxide is mentioned.

Thus Edwin only discloses chromium-cobalt-aluminum oxide as a component of an ink that is used to *print a line on the surface* of an ePTFE graft. In contrast, in the applicant's claimed invention an inorganic chromium oxide-containing pigment is part of the *mixture* including UHMWPE and spin solvent that has been gel spun into the colored filaments of the multi-filament yarn itself. Edwin does not indicate or suggest to color the ePTFE graft material itself. There is also no indication in Edwin that the therein disclosed pigments would or could be employed in gel spun UHMwPE filaments, and which would invite the skilled person do experiments that go against the general belief

in the art that mechanical strength of UHMWPE filaments would be jeopardized by incorporating pigments.

The combination of Simmelink and Edwin would lead the skilled person to, at best, a suture comprising multi-filamentary yarn gel spun from a mixture comprising UHMWPE and having a colored orientation line printed on its surface. Because the combination of Simmelink and Edwin does not teach or suggest all features that characterize the instantly claimed invention, the claims are patentably unobvious over the combination of Simmelink and Edwin.

B. The person having ordinary skill in the art would have had no reasonable expectation of success that by combining Simmelink and Edwin he would arrive at the claimed invention.

The person of ordinary skill in the art aiming to make a colored suture comprising multi-filamentary yarn comprising gel-spun UHMwPE filaments and knowing the disclosures of Simmelink would not have been motivated, and would have had no reasonable expectation of success, to make a suture as defined by present claim 16 after reading the Edwin et al publication, because at least:

- There are large differences in materials and processes as applied by Edwin versus Simmelink;
- Simmelink describes gel spinning of a mixture comprising UHMwPE into multi-filament yarn, and only mentions colorant could be added to a mixture comprising UHMwPE;
- Edwin is silent on gel spinning or any other method of making multi-filament yarn;
- Edwin does not disclose making a colored graft as such, nor that a colorant, let alone inorganic chromium oxide-containing pigment, may be incorporated in an ePTFE composition to form a colored graft; and
- Edwin teaches making a colored orientation line on a graft already made from (non-colored) ePTFE, especially making such line by printing with a colored ink on the surface of the graft.

It can therefore even be held that a person of ordinary skill in the art aiming to make a colored suture comprising multi-filamentary yarn comprising gel-spun filaments of UHMwPE and knowing the disclosures of Simmelink would have been taught away from a suture as defined by present claim 16 after reading the Edwin et al. publication.

3. Conclusions

It is therefore concluded that it was not at all "obvious" for a person of ordinary skill in the art and at the time of the invention to arrive at the presently claimed suture by combining the disclosures and teachings of the applied references of Simmelink et al. and Edwin et al. Therefore, the colored suture defined by independent claim 16 and the claims dependent thereon are patentably unobvious over the applied prior art references of record.

Applicants submit that all issues advanced in the Official Action dated November 5, 2015 have been resolved. As such, early receipt of the Official Allowance Notice is solicited.

4. Fee Authorization

The Commissioner is hereby authorized to charge any deficiency, or credit any overpayment, in the fee(s) filed, or asserted to be filed, or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Account No. 14-1140.

Respectfully submitted,

NIXON & VANDERHYE P.C.

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Electronic Patent Application Fee Transmittal	
Application Number:	12599869
Filing Date:	14-Jan-2010
Title of Invention:	COLORED SUTURE
First Named Inventor/Applicant Name:	Joseph Arnold Paul Maria J.A.P.M Simmelink
Filer:	Bryan H. Davidson/Dawn Barbour
Attorney Docket Number:	BHD-4662-1326
Filed as Large Entity	
Filing Fees for U.S. National Stage under 35 USC 371	

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Extension - 2 months with $0 paid	1252	1	600	600
Miscellaneous:				
		Total in USD ($)		**600**

Electronic Acknowledgement Receipt	
EFS ID:	25406226
Application Number:	12599869
International Application Number:	
Confirmation Number:	3921
Title of Invention:	COLORED SUTURE
First Named Inventor/Applicant Name:	Joseph Arnold Paul Maria J.A.P.M Simmelink
Customer Number:	23117
Filer:	Bryan H. Davidson/Dawn Barbour
Filer Authorized By:	Bryan H. Davidson
Attorney Docket Number:	BHD-4662-1326
Receipt Date:	05-APR-2016
Filing Date:	14-JAN-2010
Time Stamp:	17:22:15
Application Type:	U.S. National Stage under 35 USC 371

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	$600
RAM confirmation Number	4041
Deposit Account	141140
Authorized User	DAVIDSON, BRYAN H.
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		04-05-2016_AMD_V.pdf	174034 f4fcd4fe9bf9ba7ba08efde770092d5457484fcb	yes	10

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Amendment/Req. Reconsideration-After Non-Final Reject	1	1
	Claims	2	3
	Applicant Arguments/Remarks Made in an Amendment	4	10

Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	30952 e211aecfb3f6f76351594c705b8e6f6959a23e41	no	2
Warnings:					
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		Total Files Size (in bytes):	204986		

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If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

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If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 12/599,869	Filing Date 01/14/2010	☐ To be Mailed

ENTITY: ☒ LARGE ☐ SMALL ☐ MICRO

APPLICATION AS FILED – PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	RATE ($)	FEE ($)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*	X $ =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*	X $ =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).			
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))				
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL	

APPLICATION AS AMENDED – PART II

AMENDMENT	04/05/2016	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	* 13	Minus	** 22	= 0	X $80 =	0
	Independent (37 CFR 1.16(h))	* 1	Minus	***3	= 0	X $420 =	0
	☐ Application Size Fee (37 CFR 1.16(s))						
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
						TOTAL ADD'L FEE	0

AMENDMENT		(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	*	Minus	**	=	X $ =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	X $ =	
	☐ Application Size Fee (37 CFR 1.16(s))						
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
						TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".
The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

LIE
/GOIGA DUCKETT/

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**
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NOTICE OF ALLOWANCE AND FEE(S) DUE

23117 7590 07/19/2016

NIXON & VANDERHYE, PC
901 NORTH GLEBE ROAD, 11TH FLOOR
ARLINGTON, VA 22203

EXAMINER	
DANG, PHONG SON H	
ART UNIT	PAPER NUMBER
3731	

DATE MAILED: 07/19/2016

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
12/599,869	01/14/2010	Joseph Arnold Paul Maria J.A.P.M Simmelink	BHD-4662-1326	3921

TITLE OF INVENTION: COLORED SUTURE

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	$960	$0	$0	$960	10/19/2016

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the ENTITY STATUS shown above. If the ENTITY STATUS is shown as SMALL or MICRO, verify whether entitlement to that entity status still applies.

If the ENTITY STATUS is the same as shown above, pay the TOTAL FEE(S) DUE shown above.

If the ENTITY STATUS is changed from that shown above, on PART B - FEE(S) TRANSMITTAL, complete section number 5 titled "Change in Entity Status (from status indicated above)".

For purposes of this notice, small entity fees are 1/2 the amount of undiscounted fees, and micro entity fees are 1/2 the amount of small entity fees.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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IPR2024-00493

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail **Mail Stop ISSUE FEE**
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

23117 7590 07/19/2016
NIXON & VANDERHYE, PC
901 NORTH GLEBE ROAD, 11TH FLOOR
ARLINGTON, VA 22203

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

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I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
12/599,869	01/14/2010	Joseph Arnold Paul Maria J.A.P.M Simmelink	BHD-4662-1326	3921

TITLE OF INVENTION: COLORED SUTURE

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	$960	$0	$0	$960	10/19/2016

EXAMINER	ART UNIT	CLASS-SUBCLASS
DANG, PHONG SON H	3731	606-228000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).
- ❑ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
- ❑ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list
(1) The names of up to 3 registered patent attorneys or agents OR, alternatively,
(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.
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2 _____
3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent) : ❑ Individual ❑ Corporation or other private group entity ❑ Government

4a. The following fee(s) are submitted:
- ❑ Issue Fee
- ❑ Publication Fee (No small entity discount permitted)
- ❑ Advance Order - # of Copies _____

4b. Payment of Fee(s): **(Please first reapply any previously paid issue fee shown above)**
- ❑ A check is enclosed.
- ❑ Payment by credit card. Form PTO-2038 is attached.
- ❑ The director is hereby authorized to charge the required fee(s), any deficiency, or credits any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

5. **Change in Entity Status** (from status indicated above)
- ❑ Applicant certifying micro entity status. See 37 CFR 1.29
  NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.
- ❑ Applicant asserting small entity status. See 37 CFR 1.27
  NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.
- ❑ Applicant changing to regular undiscounted fee status.
  NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature _____ Date _____

Typed or printed name _____ Registration No. _____

PTOL-85 Part B (10-13) Approved for use through 10/31/2013. OMB 0651-0033 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(Applications filed on or after May 29, 2000)

The Office has discontinued providing a Patent Term Adjustment (PTA) calculation with the Notice of Allowance.

Section 1(h)(2) of the AIA Technical Corrections Act amended 35 U.S.C. 154(b)(3)(B)(i) to eliminate the requirement that the Office provide a patent term adjustment determination with the notice of allowance. See Revisions to Patent Term Adjustment, 78 Fed. Reg. 19416, 19417 (Apr. 1, 2013). Therefore, the Office is no longer providing an initial patent term adjustment determination with the notice of allowance. The Office will continue to provide a patent term adjustment determination with the Issue Notification Letter that is mailed to applicant approximately three weeks prior to the issue date of the patent, and will include the patent term adjustment on the patent. Any request for reconsideration of the patent term adjustment determination (or reinstatement of patent term adjustment) should follow the process outlined in 37 CFR 1.705.

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

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