

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT5904580

SUBMISSION TYPE:	RESUBMISSION
NATURE OF CONVEYANCE:	EMPLOYMENT AGREEMENT
RESUBMIT DOCUMENT ID:	505741707
CONVEYING PARTY DATA	
Name	Execution Date
BYEONG-DOO CHOI	01/10/2017
RECEIVING PARTY DATA	
Name:	SAMSUNG ELECTRONICS CO., LTD.
Street Address:	129, SAMSUNG-RO, YEONGTONG-GU
City:	SUWON-SI, GYEONGGI-DO
State/Country:	KOREA, REPUBLIC OF
Postal Code:	16677
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16477102
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ATTORNEY DOCKET NUMBER:	678-5453 PCT US
NAME OF SUBMITTER:	PAUL J. FARRELL
SIGNATURE:	/pjf/
DATE SIGNED:	01/10/2020
Total Attachments: 10	
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Inventor's Employment Agreement

VERIFICATION OF TRANSLATION

I, [GyeongSeon BYUN],



Mihwa Bldg. 16 Daehak-ro 9-gil, Chongro-gu,
Seoul, 03079 Republic of Korea

State the following

I am the translator of the document(s) attached and I state that the following is
a true translation to the best of my knowledge and belief.

Signature: Gyeong Seon Byun

Date: 27.6.2019

The right to obtain a patent for the invention described below is transferred to Samsung Electronics Co., Ltd pursuant to Article 4 of the Samsung's Invention Disclosure Compensation Regulations.

Title of the invention (Korean language) 전 방향 영상의 효율적인 패킹 방법

Title of the invention (English) Generalized packing method for omnidirectional video

Basic Information

Invention Disclosure Report Department SET Drafter CHOI, Byeongdoo

Whether or not to be associated with the Project Association

Object Name Immersive Media Standards

In/Out-company	Name (Korean)	Status of employment	Name (English)	Applicant
In-company	최병두	Retired	CHOI, Byeongdoo	Samsung Electronics Co., Ltd.

Product Information

Product Classification (New)	Code	Classification system			Head mount
	P A010203	Mobile device > Wearable device > HMD/HMT			
	Code	Classification system			

Technical Classification (New)	TA01021201	Mobile device > Cellphone/Tablet/Portable player > Mobile device > Wearable device > Content Processing >	Image/Video
	Code		

Technical Classification (Old)	Code		
	Code		

Product Classification (Old)

Joint invention information

Joint invention information	Self-invented	classification	Name of institution
	Domestic / Overseas		
Information on participating organizations	Domestic	Corporation	Samsung Electronics Co., Ltd

		Registration ID		J2017-01-0129	
JOL Byeongdoo		Department		Media Standards Lab.	
Name (English)		Affiliation		Department	
JOL Byeongdoo		Samsung Electronics		Media Standards Group(DMC)	
		Representative		Yes	
		Level of contribution to Invention (%)			
		Contribution to Invention			
		Classification Explanation		*Representative Classification	
		Head mount display		■	
		Classification Explanation		*Representative Classification	
Processing >		Image/Video/Audio content processing		■	
		Classification system			
		Classification system			
		Type of rights			
Name of institution		Applicant's status		Cost ratio(%)	
		☒			
				Rights ownership(%)	

PATENT

Region/Title of the invention	Generalized packing method for omnidirectional video	Person in charge of Samsung	Hyeseoncheol PU	Occurrence Stage	43) Application filed
Current Grade	A2(G3/Simultaneous Delegation)	Person in charge of Domestic Agent	Minhye Kim	Core Patent Pool	No
Domestic Agent	K.J.Lee	Person in charge of Overseas Agent		Standardization	Yes
Overseas Agent	K.J.Lee			Number of Claims	18
Site					
Management part of the Applicant					
Country for filing application	● Invention + Country for filing application ● Publication				
Decision to Grade / Decision to file Application	Application / Office Action / Grant / Publication / Processing History / Cost History / Local Agent Processing History / Related Files / Family information / Agent evaluation				

File of the invention (Korean language)	전방향 영상의 표출적인 패킹방법	Management Affiliation	MJI Global Standards Team_Media Standards Grc
File of the invention (English)	Generalized packing method for omnidirectional video		
Receipt date	2017.01.10		

Basic Information	SET	Drafter	CHOI, Byeongdoo
Revision Disclosure Report Department	Media Standards Lab.	Whether or not to be associated with the Proj Association	
Project Name	Immersive Media Standards		
Revision Information (modification history)	Modification for the entire information Approval History (2017.01.10)	Name(English)	First depart
	In/Out-company	Name(Korean)	Name(Chinese character)
	Out-company	최병두	崔秉斗
	Code	Classification system	Media Str
Product Classification (New)	PA010203	Mobile device > Wearable device > HMD/HMT	Head mount display
Technical Classification (New)	Code	Classification system	
Product Classification (Old)	TA01021201	Mobile device > Content Processing > Multimedia Processing	Image/Video/Audio content processing
Technical Classification (Old)	Code		

Patent information	Self-invented	Name of institution	
Participating organizations	Domestic / Overseas		
	Domestic	Corporation	Samsung Electronics Co., Ltd.

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● 國際勞工組織
● 世界經濟論壇
● 世界衛生組織
● 世界貿易組織
● 世界銀行
● 世界自然基金會
● 世界環境基金會
● 世界動物保護協會
● 世界植物保護協會
● 世界鳥類保護協會

氏名	TEL	住所	所属団体	備考
(株)アールエス	03-3581-1111	東京都港区	日本経済新聞社	

발명명칭(한글)	기반형 영상의 포괄적인 패킹방법	발명종류	본시(국내)
발명명칭(영어)	Generalized packing method for omnidirectional video	핵심연구소명	
출원부서접수일	2017.01.10	관리소속	관리소속(Sub)
		관리소속	관리소속(Sub)

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22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1039 1040 1041 1042 1043 1044 1045 1046 1047 1048 1049 1050 1051

구분	자세 설명	권리 소유 형태	기권 원상	출원인 여부 (권리 소유권)	비용 부담률 (%)	권리 재결정률 (%)
특허권	국내/해외	구분	기권	☒	100	
특허권	국내	구분	상정전자			

※ 당사 정밀분석 보고서 제 4조에 의거하여 하기 범용에 대하여 특허권을 부여할 수 있는 권리를 회사에 양도합니다.

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α	Generalized packing method for omnidirectional video
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NE ID J2017-01-0129

J2017-01-0129

0 기본정보

0 원이 정보

100%

PATENT

Internet Explorer									
* (신)정보공개									
단기	연월일	구분	성명	직명	처리일시	발표자(발표자)부서명	연계 부서명	비고	비고
특수정보공개	2017.01.10	개인	최정복	55(책임)	2017.01.10 12:55:30	미디어 표준 그룹 (OMC팀)			MPEG 기술은 없습니다. 특수정보와 관련하여 후속으로 신속하게 기술을 하려 합니다. 정기 업데이트합니다.
특수정보공개	2017.01.13	후보	이영근	68(수석)	2017.01.13 17:01:30	미디어 표준 그룹 (OMC팀)	Visual Technology(SH)		

Status	classify	Name	Status of employment	Processing date and time	Assignee (inventor) Department name
Complete	draft	CHOI, Byeongdoo	E5(Senior Manager)	2016. 12. 14 18:19:16	Media Standards Group(DMC)
Complete	agree	LEE, Kyounggeun	E6(Principle Manager)	2016. 12. 15 10:35:14	Media Standards Group(DMC)

Processing date and time	Assignee (inventor) Department name	Current department (institution) name	content(s)
2016. 12. 14 18:19:16	Media Standards Group(DMC)		This is MPEG provisional application. We have reached an agreement with the patent team, and we would like to file a provisional application as soon as possible. Please approval on this.
2016. 12. 15 10:35:14	Media Standards Group(DMC)	Visual Technology Team (SR)	

PATENT

REEL: 051765 FRAME: 0012

RECORDED: 10/25/2019