Recent patent applications in sequencing

Patent number	Description	Assignee	Inventor	Priority application date	Publication date
WO2012125848	A system for quality control of sequencing data comprising adding to an unsequenced sample of DNA at least three known sequences, where each sequence is at a different known concentration.	Baylor College of Medicine (Houston, TX, USA)	Cui H, Wong LC, Zhang W	3/16/2011	9/20/2012
US 20120231974, WO 2012122418	A patterned substrate that includes first regions and a second region, and an associated biomolecule; useful for constructing a high-density ordered array for DNA sequencing, and detecting attached biomolecules.	Lightspeed Genomics (Santa Clara, CA, USA)	Kim DH, Kim S	3/8/2011	9/13/2012, 9/13/2012
US 20120225421, WO 2012118802	A kit comprising a sequencing primer and blocking nucleic acid; useful for sequencing a target DNA sequence in a sample having a reference sequence.	Transgenomic (Omaha, NE, USA)	Legendre B, Richardson K, Shi Y	2/28/2011	9/6/2012, 9/7/2012
US 20120173158, WO 2012118555	A method for sequencing a polynucleotide strand of, e.g., DNA, involving determining the time-warped empty reaction confinement region function, and estimating nucleotide incorporations using the time-warped empty reaction confinement region function.	Life Technologies (Carlsbad, CA, USA)	Hubbell E	12/29/2010	7/5/2012, 9/7/2012
US 20120225787	A method of sequencing many polynucleotides, comprising binding protection molecules to many polynucleotides, cleaving polynucleotides bound to protection molecules, amplifying resultant polynucleotide fragments, and performing paired-end sequencing.	Illumina (San Diego, CA, USA)	Boutell JM, Steemers F	1/25/2008	9/6/2012
US 20120202212	Identifying component species in a natural product, comprising isolating genomic DNA from a natural product, amplifying one or more target regions from the genomic DNA to produce amplified target regions and sequencing.	Reynaud DTH	Reynaud DTH	2/9/2011	8/9/2012
US 20120196279	A method for producing double-stranded nucleic acid involving fragmenting the double-stranded DNA molecule, attaching polynucleotides to ends of the fragments and eliminating a region of ribonucleotides; useful as a template for DNA sequencing systems.	Pacific Biosciences California (Menlo Park, CA, USA)	Ranade S, Tsai Y, Underwood J	2/2/2011	8/2/2012
US 20120193235	A nanodevice for DNA sequencing comprising a reservoir filled with conductive fluid, a membrane having an insulating layer, a nanopore formed through the membrane, and an organic coating provided on the insulating layer forming a transient bond to a molecule in the nanopore.	IBM (Armonk, NY, USA)	Afzali-Ardakani A, Harrer S, Luan B, Martyna GJ, Peng H, Rossnagel SM, Royyuru AK, Stolovitzky GA, Waggoner PS	1/28/2012	8/2/2012
WO 2012089147, CN 102534812	A method for constructing a sequencing library by carrying out chromatin immune coprecipitation processing of the nucleic acid sample, processing the DNA fragment using hydrosulfite and amplifying the obtained product to obtain sequencing library.	BGI Shenzhen (Shenzhen), Shenzhen BGI Technology Co. (Shenzhen)	Gao Z, Han X, Wang J, Ye M, Zhuo Z, Yang H, Zhang X	12/31/2010	7/5/2012, 7/4/2012
CN 102533985	A method of detecting a deletion and/or repeat Duchenne Muscular Dystrophy gene exon by using a first primer and second primer for amplifying a dual-chain DNA segment, and comparing the sequencing sequence segment with the exon sequence and exon side wing.	BGI Shenzhen (Shenzhen), Shenzhen BGI Technology Co. (Shenzhen)	Chen Y, Lan Z, Qu N, Wei X, Xie S	12/19/2011	7/4/2012
CN 102516208	A new cracking connecting unit able to be synthesized in a simple and easy manner at industrial level; useful for sequencing of DNA by using fluorescein.	East China University of Science and Technology (Shanghai), Shanghai Jiao Tong University (Shanghai), HYK Gene Technology (Shenzhen)	Gong B, Guo X, Li Q, Shao Z, Shen Y, Sheng S, Wu X	10/27/2011	6/27/2012

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