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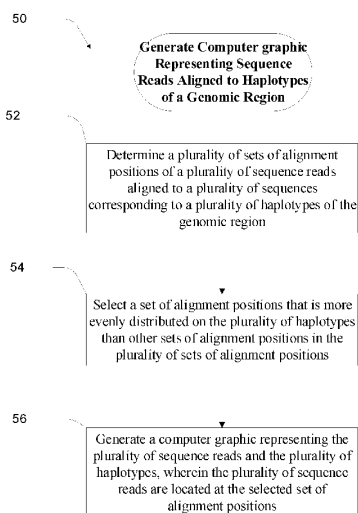


Figure 5

(57) Abstract: The disclosed embodiments concern methods, apparatus, systems and computer program products for genotyping and visualizing repeat sequences such as medically significant short tandem repeats (STRs). Some implementations can be used to genotype and visualize repeat sequences each including two or more repeat sub-sequences. Some implementations provides a computer tool to generate sequence read pileups for visualizing repeat sequences for samples that have different genotypes of the repeat sequence, each sequence pileup including reads aligned to two or more different haplotypes.

WO 2022/125995 A1