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(71) Applicant: **ILLUMINA, INC.** [US/US]; 5200 Illumina Way, San Diego, California 92122 (US).

(72) Inventors: **SMITH, Paul**; 5200 Illumina Way, San Diego, California 92122 (US). **LU, Bo**; 5200 Illumina Way, San

Diego, California 92130 (US). **CARNEY, Michael J.**; 5200 Illumina Way, San Diego, California 92122 (US). **TSAO, Hsu-Lin**; 5200 Illumina Way, San Diego, California 92122 (US). **PARNABY, Gavin Derek**; 5200 Illumina Way, San Diego, California 92122 (US). **BERGACH, Mohamed Amine**; 5200 Illumina Way, San Diego, California 92122 (US).

(74) Agent: **ALEXANDER, Ross E.**; 1717 Arch Street, Suite 3300, Philadelphia, Pennsylvania 19103 (US).

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(54) Title: COMPUTE SCHEDULING FOR SEQUENCING ANALYSIS

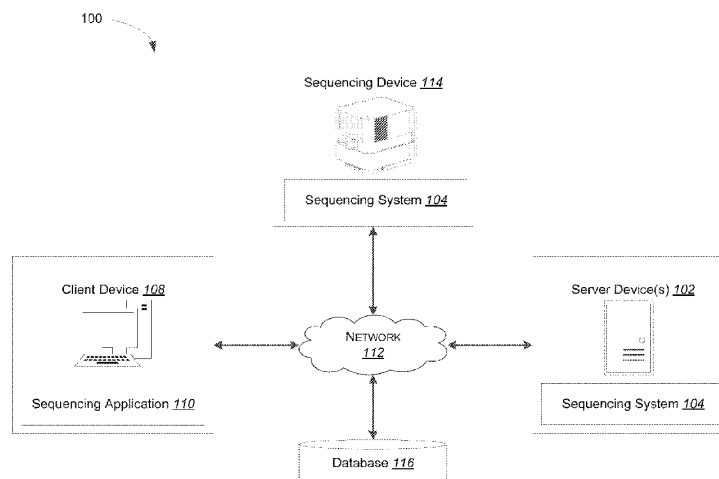


FIG. 1A

(57) Abstract: Systems, methods, and apparatus are described herein for performing sequencing of one or more biological samples in at least two flow cells on a sequencing device. A sequencing system may comprise one or more of a scheduling engine, the sequencing device, and a display. The scheduling engine may maintain scheduling information of a state of compute resources and non-compute resources. The sequencing device may receive the scheduling information from the scheduling engine; determine the state of the compute resources and non-compute resources; determine a sequencing analysis priority associated with performing analysis of the at least two flow cells on the sequencing device; and perform the sequencing task related to the one or more biological samples in the at least two flow cells according to the sequencing analysis priority. The display may display real-time feedback associated with completion of the sequencing task for each flow cell.

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