

FIG. 1

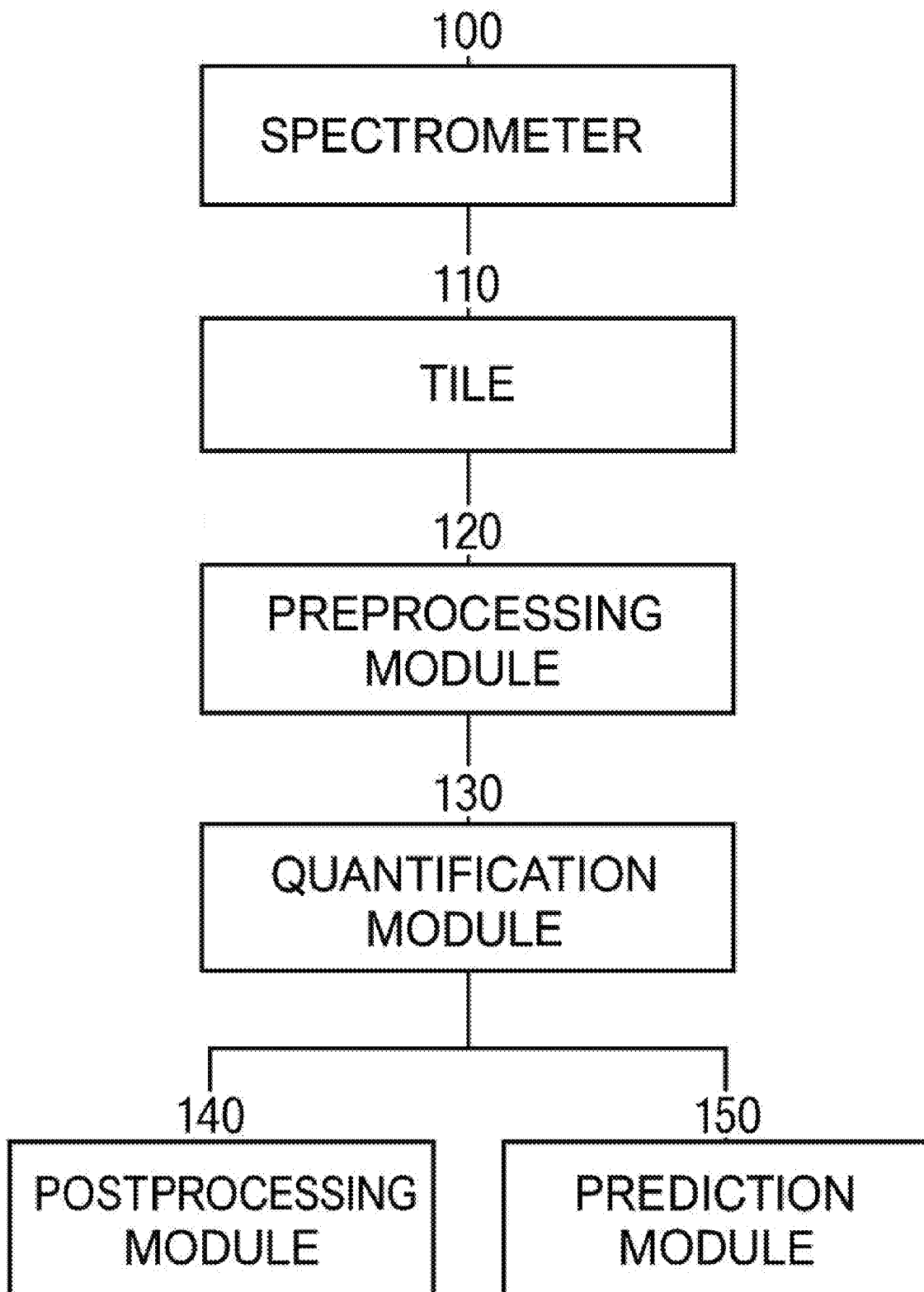
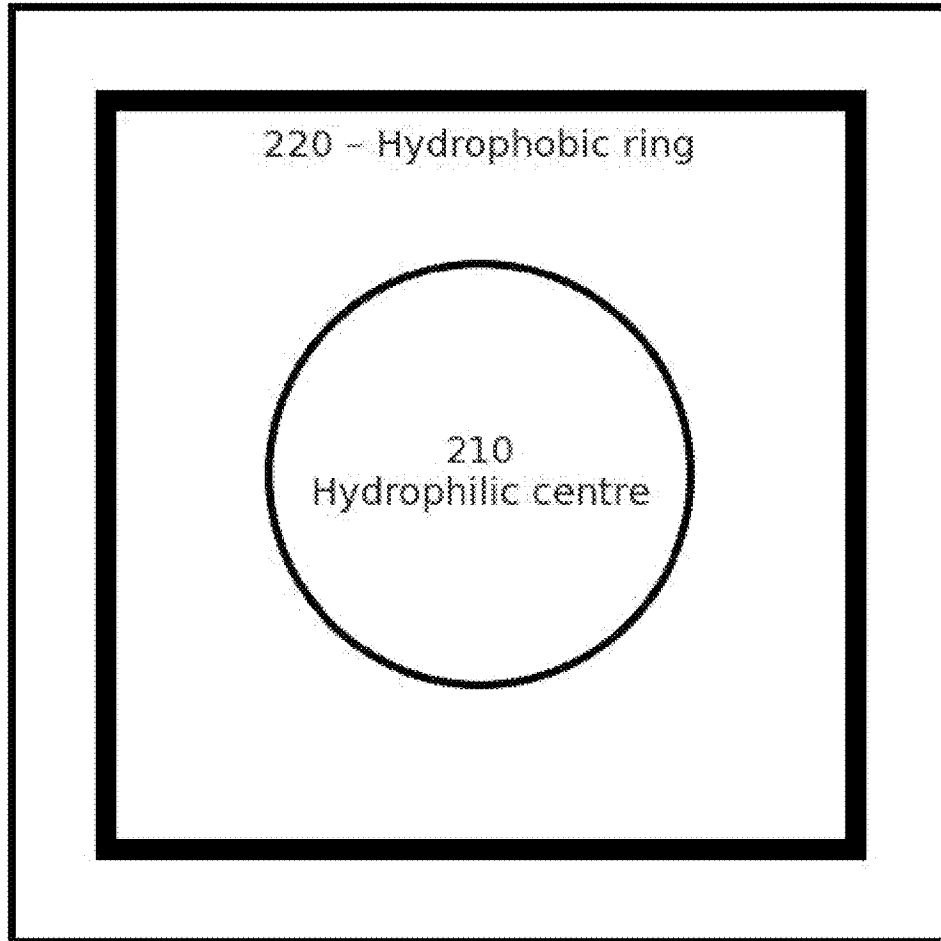


FIG. 1

200 - Tile body



Serum film

240 - ATR crystal

230
2-5 μm

FIG. 3 – Data Processing Pipeline

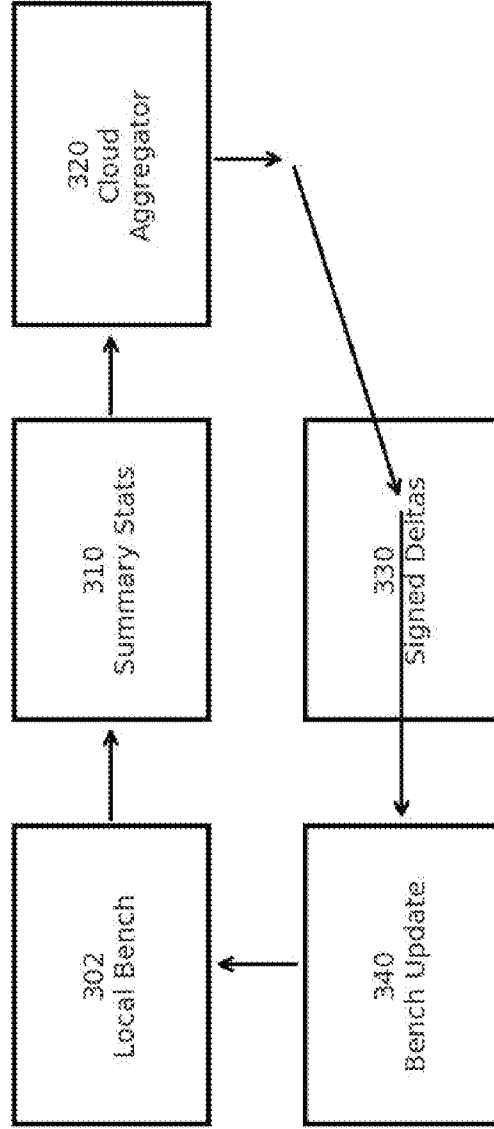
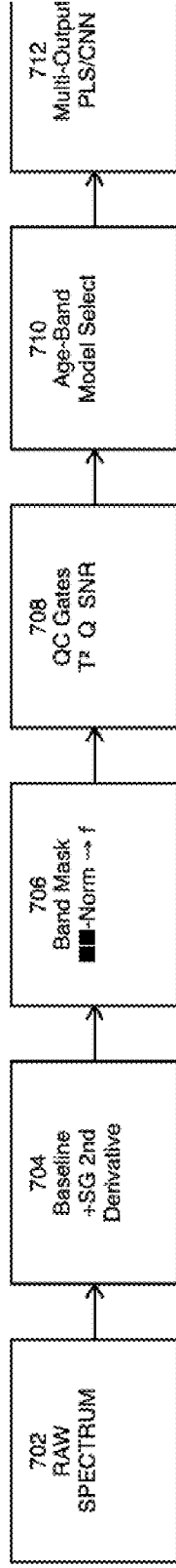


FIG. 4 – Cloud Self-Calibration Loop

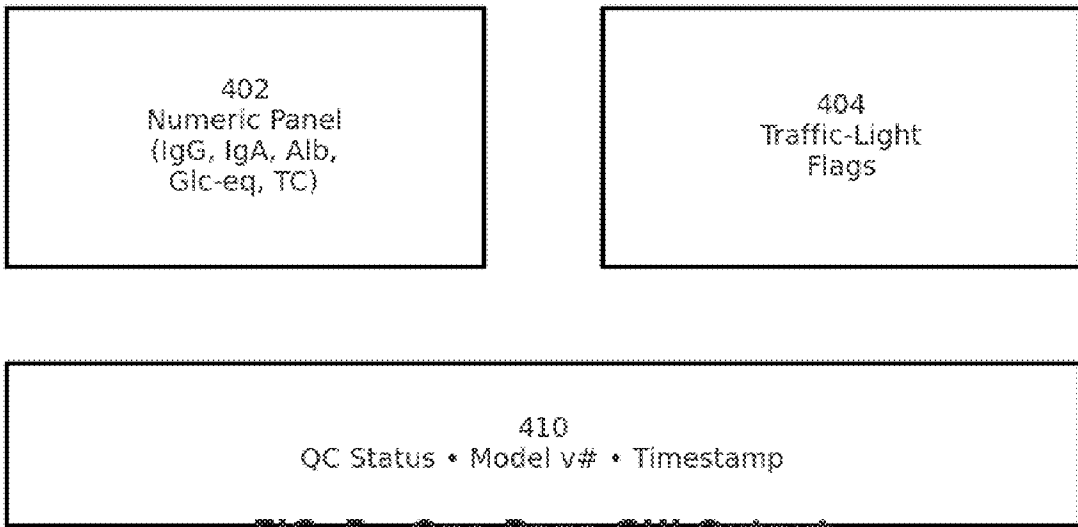


FIG. 5 - One-Page GUI Output

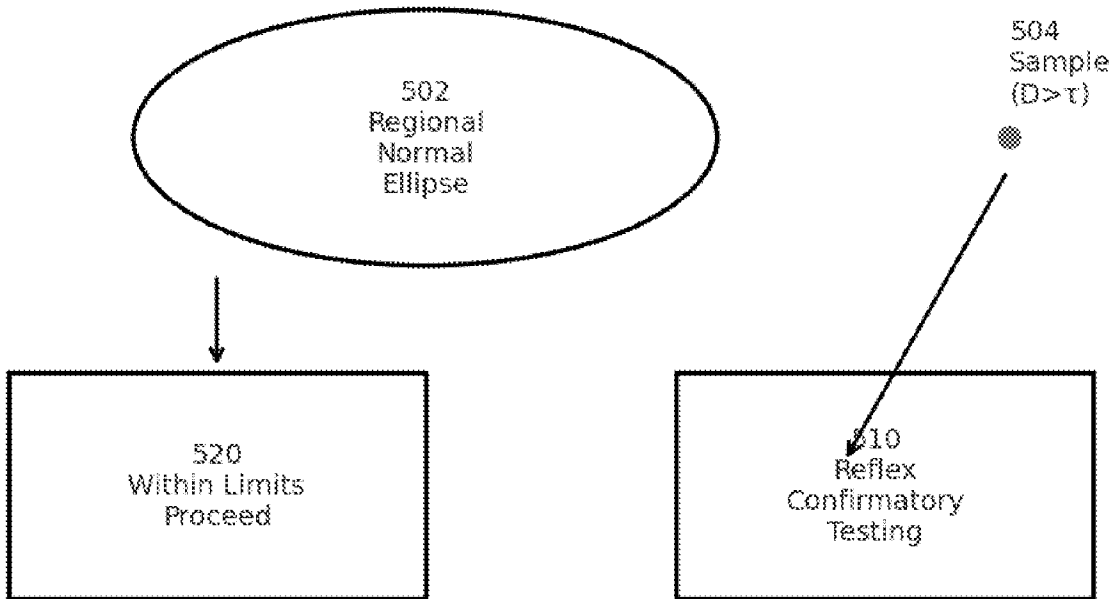


FIG. 6 - Regional Outlier Detection

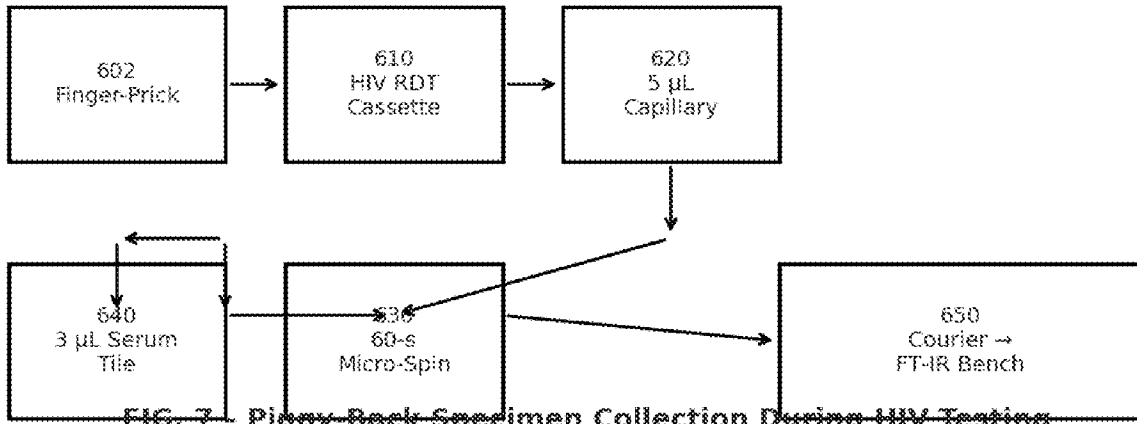


FIG. 7 Piggy-Back Specimen Collection During HIV Testing

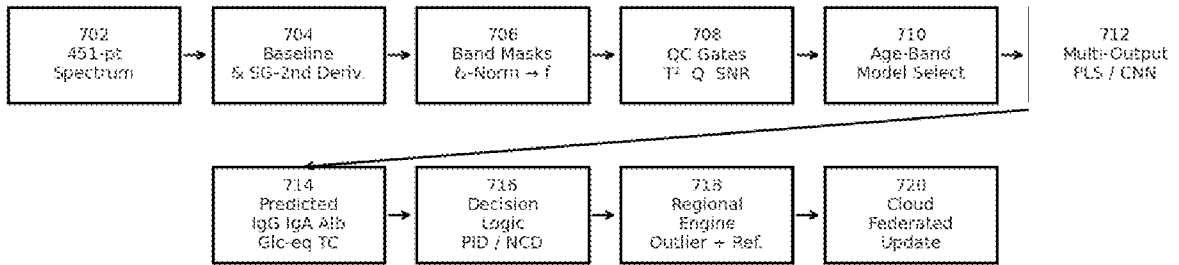


FIG. 8A - Swim-Lane Algorithm Flow

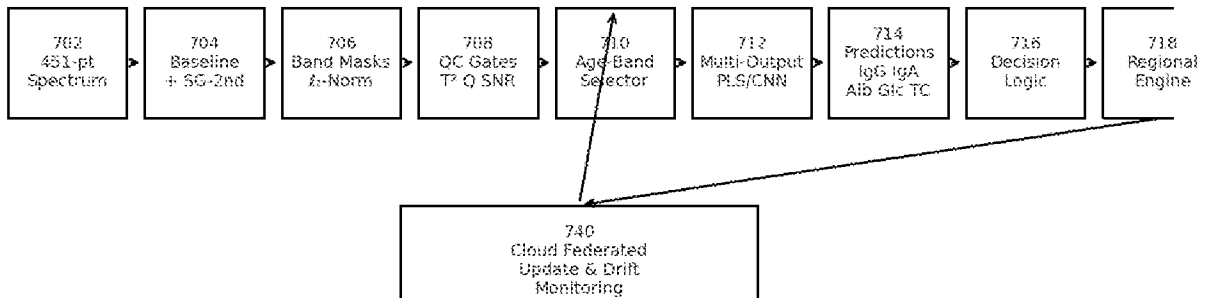


FIG. 8B - Linear Pipeline Variant with Cloud Call-Out

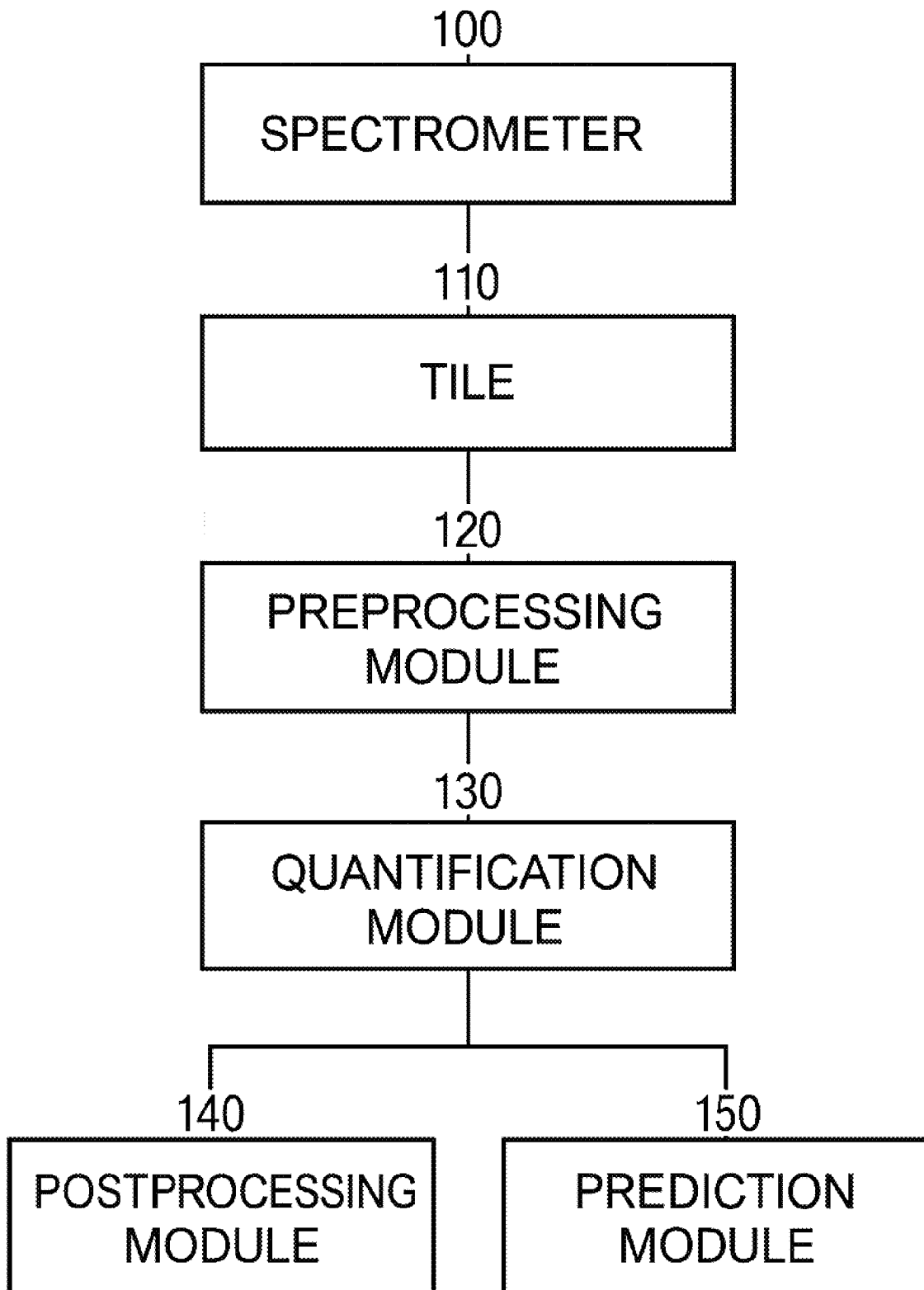


FIG. 1

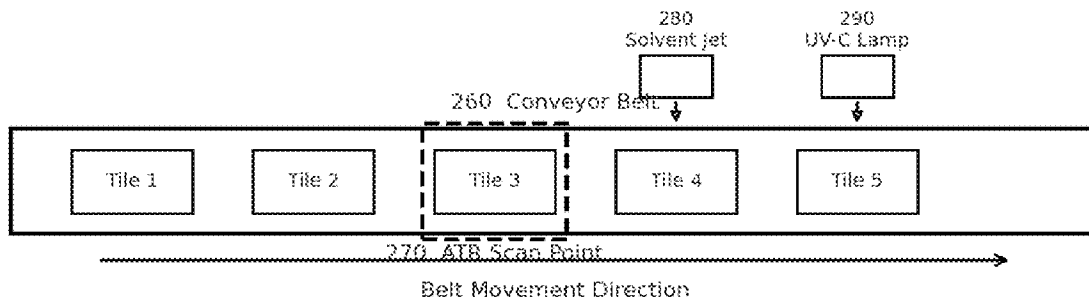


FIG. 3 - Conveyor-Fed ATR Sample Path

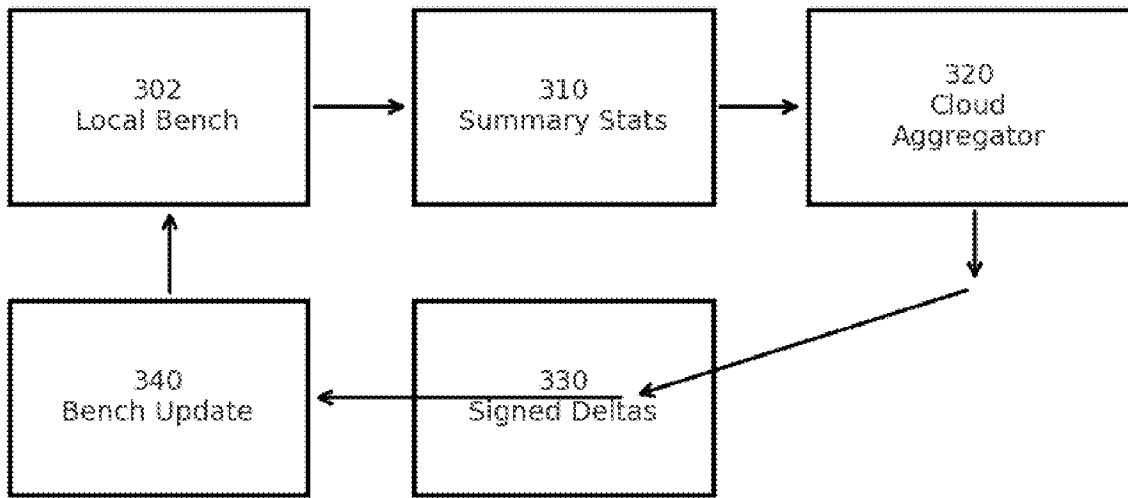


FIG. 4 - Cloud Self-Calibration Loop

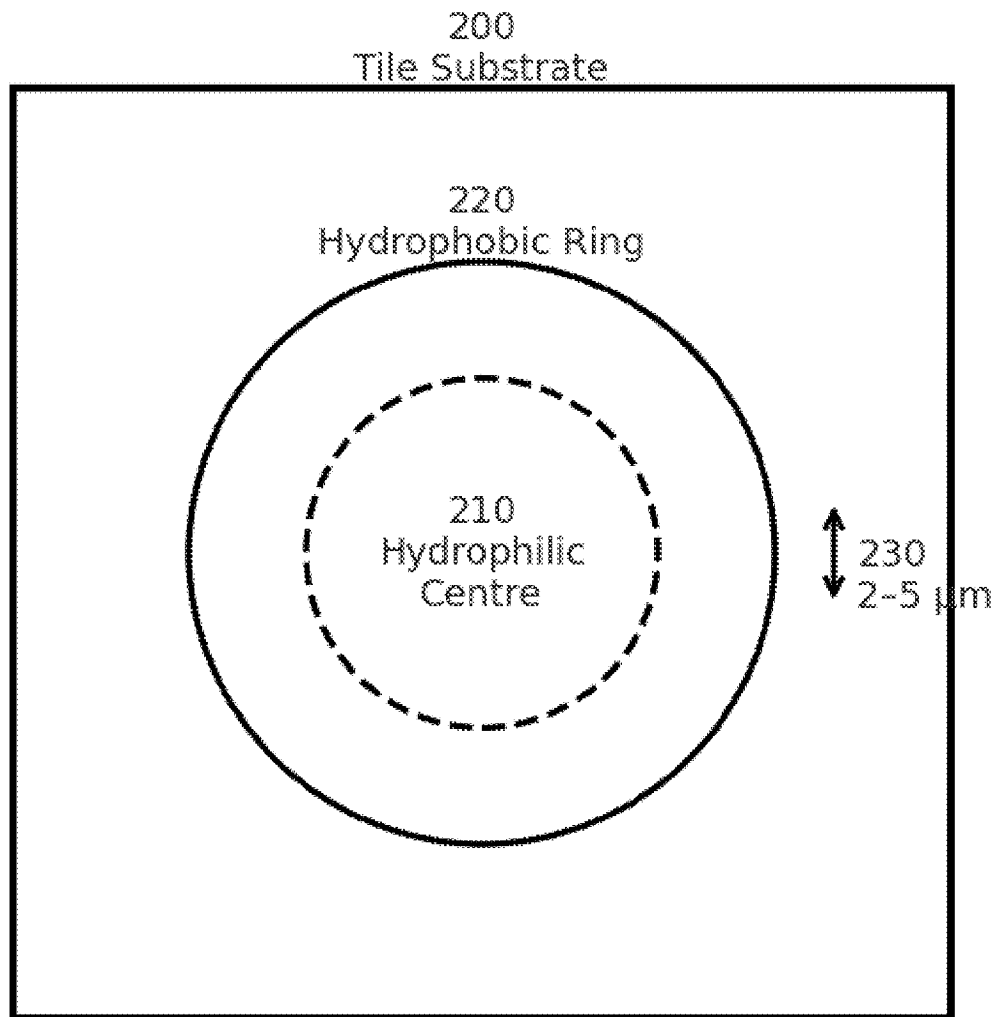


FIG. 2 - Disposable Serum-Tile Geometry

200

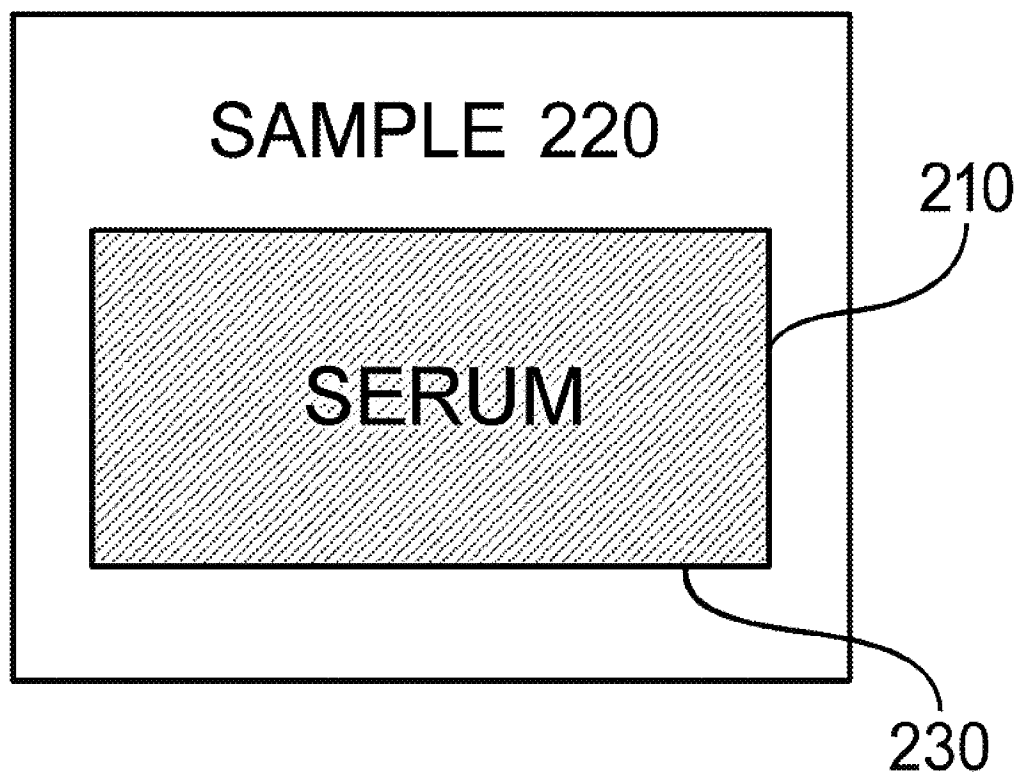


FIG. 2