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(71) Applicant: **BEIJING XIAOMI MOBILE SOFTWARE CO., LTD.** [CN/CN]; No.018, Floor 8, Building 6, Yard 33, Middle Xierqi Road, Haidian District, Beijing 100085 (CN).

(72) Inventors: **LASSERRE, Sebastien**; No.018, Floor 8, Building 6, Yard 33, Middle Xierqi Road, Haidian District,

Beijing 100085 (CN). **GAO, Shuo**; No.018, Floor 8, Building 6, Yard 33, Middle Xierqi Road, Haidian District, Beijing 100085 (CN). **TAQUET, Jonathan**; No.018, Floor 8, Building 6, Yard 33, Middle Xierqi Road, Haidian District, Beijing 100085 (CN).

(74) Agent: **TSINGYIHUA INTELLECTUAL PROPERTY LLC**; Room 201, 2nd Floor, Building 1, No. 45, Beiwa Road, Haidian District, Beijing 100142 (CN).

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(54) Title: METHOD AND APPARATUS OF ENCODING/DECODING POINT CLOUD GEOMETRY DATA CAPTURED BY A SPINNING SENSORS HEAD

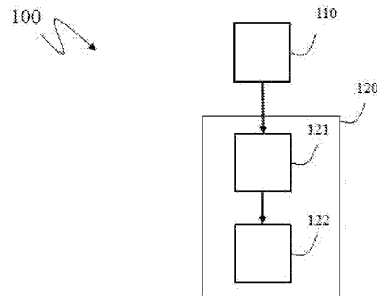


Fig. 10

(57) Abstract: There is provided methods and apparatus of encoding/decoding a point cloud representing a physical object. Points are captured by a spinning sensors head and are represented by sensor indices associated with sensors that captured the points, azimuthal angles representing capture angles of said sensors, and radius values of spherical coordinates of the point. An azimuthal angle data ($\phi_{coded,n}$) is encoded/decoded. Said azimuthal angle data ($\phi_{coded,n}$) is representative of an azimuthal angle ($\phi(P_n)$) responsive to a capture angle of a sensor that captured a point of the point cloud. Decoding said azimuthal angle data ($\phi_{coded,n}$) is based on a boundary value (B) that depends on sensor characteristics and such that the absolute value of said azimuthal angle data (ϕ_{coded}) is bounded by said boundary value.

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