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(71) Applicant: **MICROSOFT TECHNOLOGY LICENSING, LLC** [US/US]; One Microsoft Way, Redmond, Washington 98052-6399 (US).

(72) Inventors: **GARBIN, Stephan Joachim**; Microsoft Technology Licensing, LLC, One Microsoft Way, Redmond,

Washington 98052-6399 (US). **KOWALSKI, Marek Adam**; Microsoft Technology Licensing, LLC, One Microsoft Way, Redmond, Washington 98052-6399 (US). **JOHNSON, Matthew Alastair**; Microsoft Technology Licensing, LLC, One Microsoft Way, Redmond, Washington 98052-6399 (US).

(74) Agent: **CHATTERJEE, Aaron C.** et al.; Microsoft Technology Licensing, LLC, One Microsoft Way, Redmond, Washington 98052-6399 (US).

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(54) Title: HIGH RESOLUTION NEURAL RENDERING

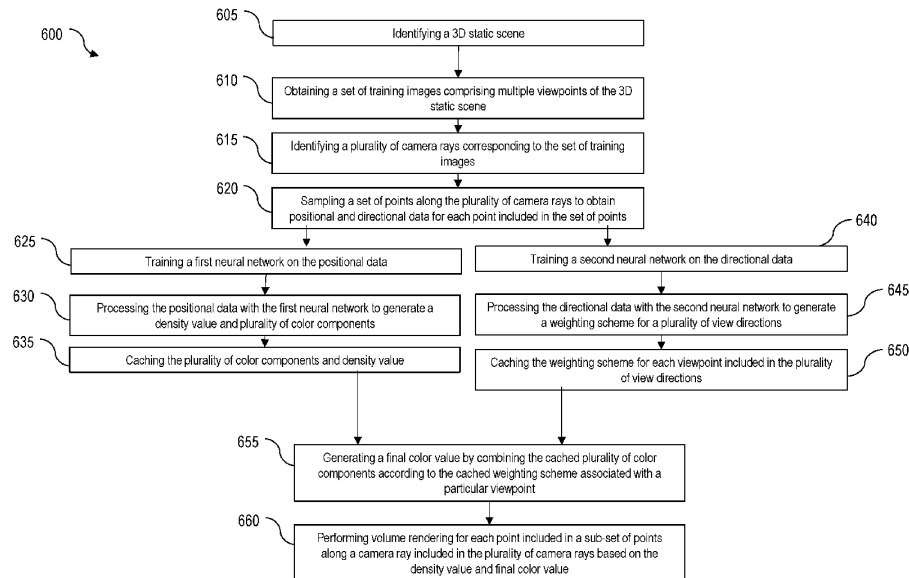


FIG. 6

(57) Abstract: Methods and systems are provided for training a machine learning model to generate density values and radiance components based on positional data, along with a weighting scheme associated with a particular view direction based on directional data to compute a final RGB value for each point along a plurality of camera rays. The positional data and directional data are extracted from set of training images of a particular static scene. The radiance components, density values, and weighting schemes are cached for efficient image data processing to perform volume rendering for each point sampled. A novel viewpoint of a static scene is generated based on the volume rendering for each point sampled.

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- *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

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