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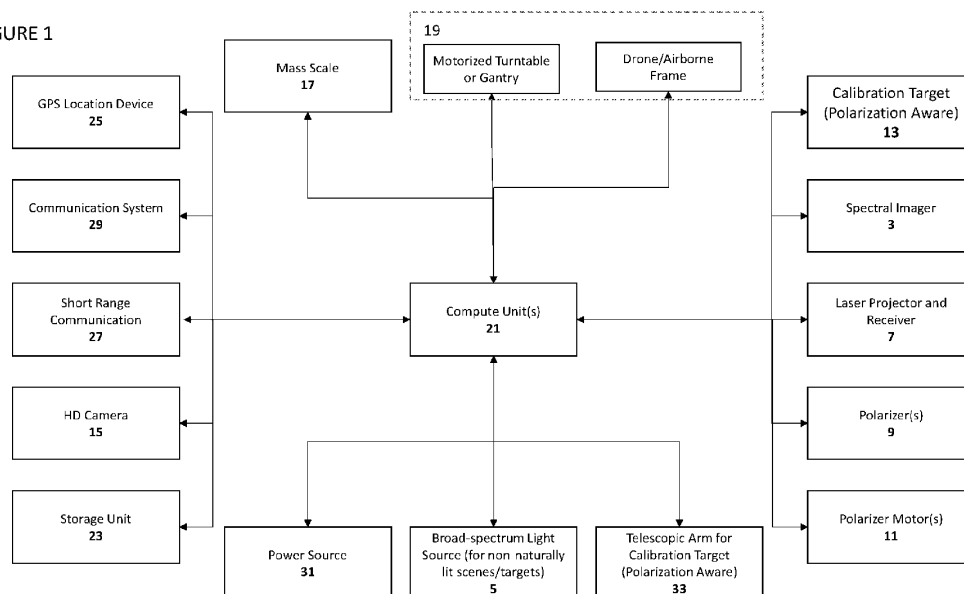
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(54) Title: METHOD AND DEVICE FOR GENERATING ENHANCED HIGH-FIDELITY THREE-DIMENSIONAL DIGITAL DUPLICATES OF REAL-WORLD OBJECTS

FIGURE 1



(57) Abstract: A device and method for generating enhanced high-fidelity three-dimensional digital copies of real-world objects using a spectral imager, a range scanner, one or more polarizers and a mechanism of movement to move the real-world object and assessment devices relative to one another to allow a 360-degree assessment of the real-world object to determine the spectral hypercube data of the real-world object, including identifying individual layer composition and structure in multi-layered objects, and determining each layer at which sub-surface anomalies, defects, imperfections, noise and geometric irregularities in composition of the real-world object exist.

[Continued on next page]

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