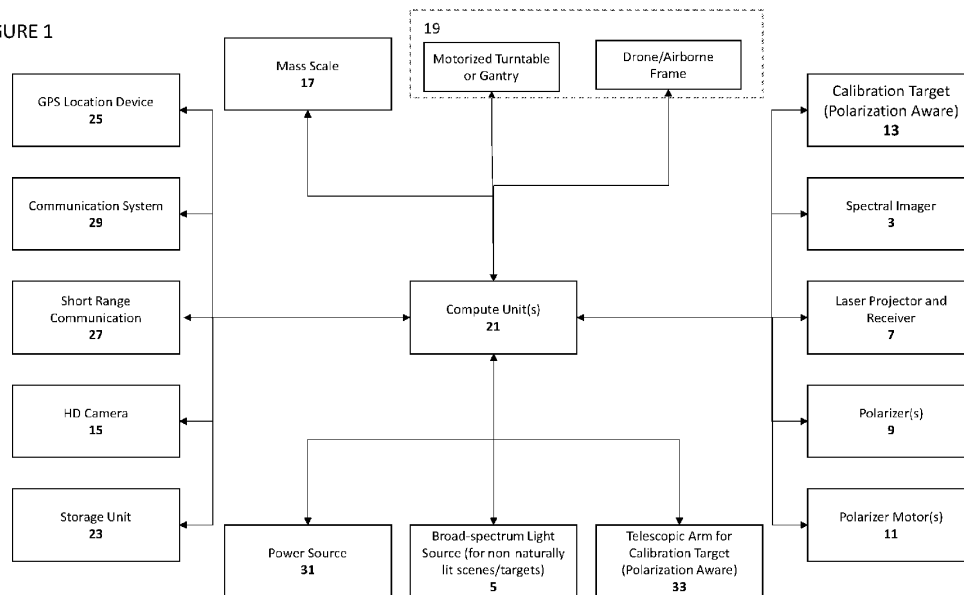




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- (72) **Inventor; and**
- (71) **Applicant: RADY, Max Adel** [US/FR]; 22 Rue Fessart,
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- (74) **Agent: DAVIS, Peter** et al.; Whiteford, Taylor & Preston, LLP, Seven Saint Paul Street, Baltimore, Maryland 21202-1636 (US).
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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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