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(54) **3D IMAGE ACQUISITION APPARATUS AND METHOD OF CALCULATING DEPTH INFORMATION IN THE 3D IMAGE ACQUISITION APPARATUS**

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(57) **ABSTRACT**

A 3-dimensional (3D) image acquisition apparatus and a method of calculating depth information in the 3D image acquisition apparatus, the 3D image acquisition apparatus including: an optical modulator for modulating light reflected from a subject by sequentially projected N (N is 3 or a larger natural number) light beams; an image sensor for generating N sub-images by capturing the light modulated by the optical modulator; and a signal processor for calculating depth information regarding a distance to the subject by using the N sub-images.

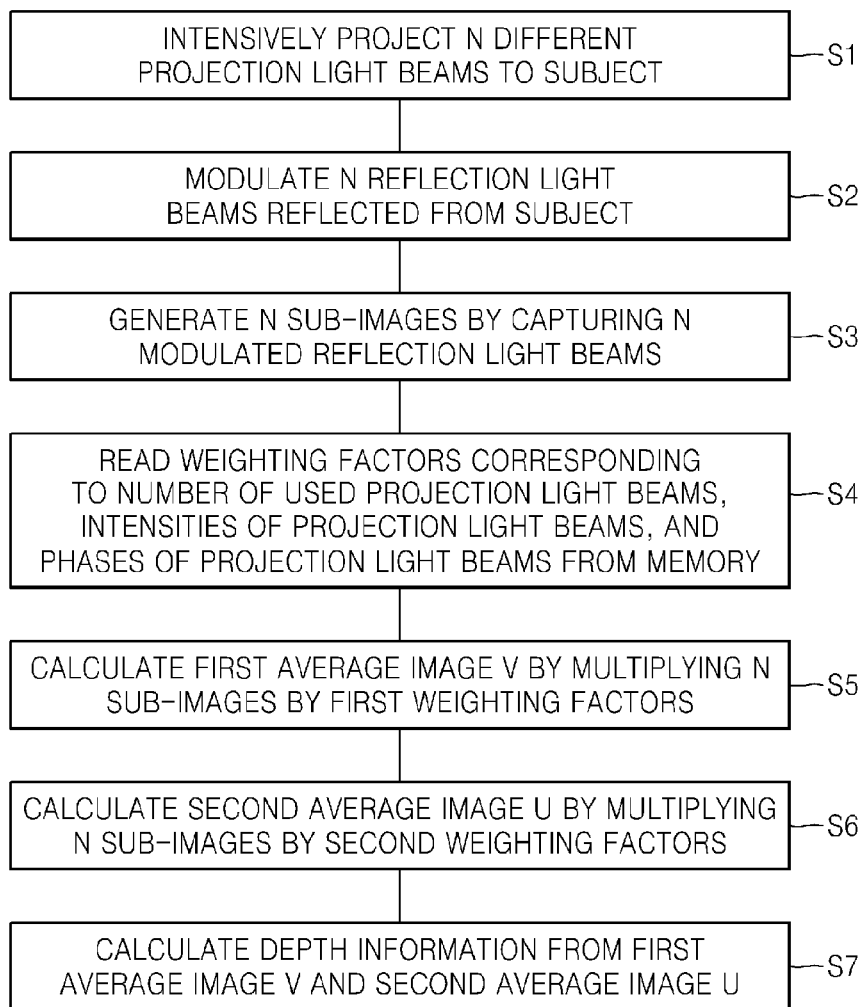
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Align Ex. 1016

FIG. 1

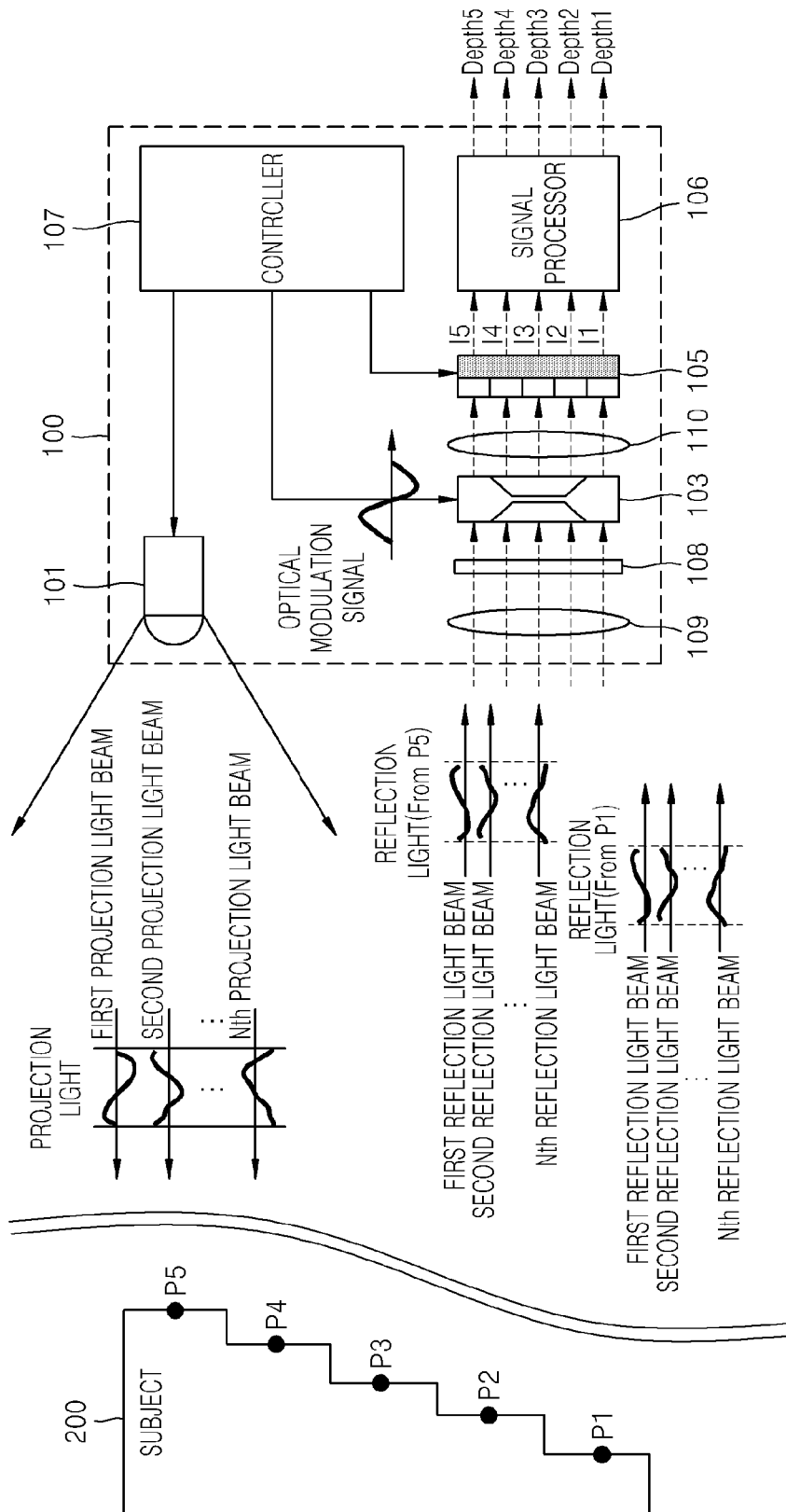


FIG. 2

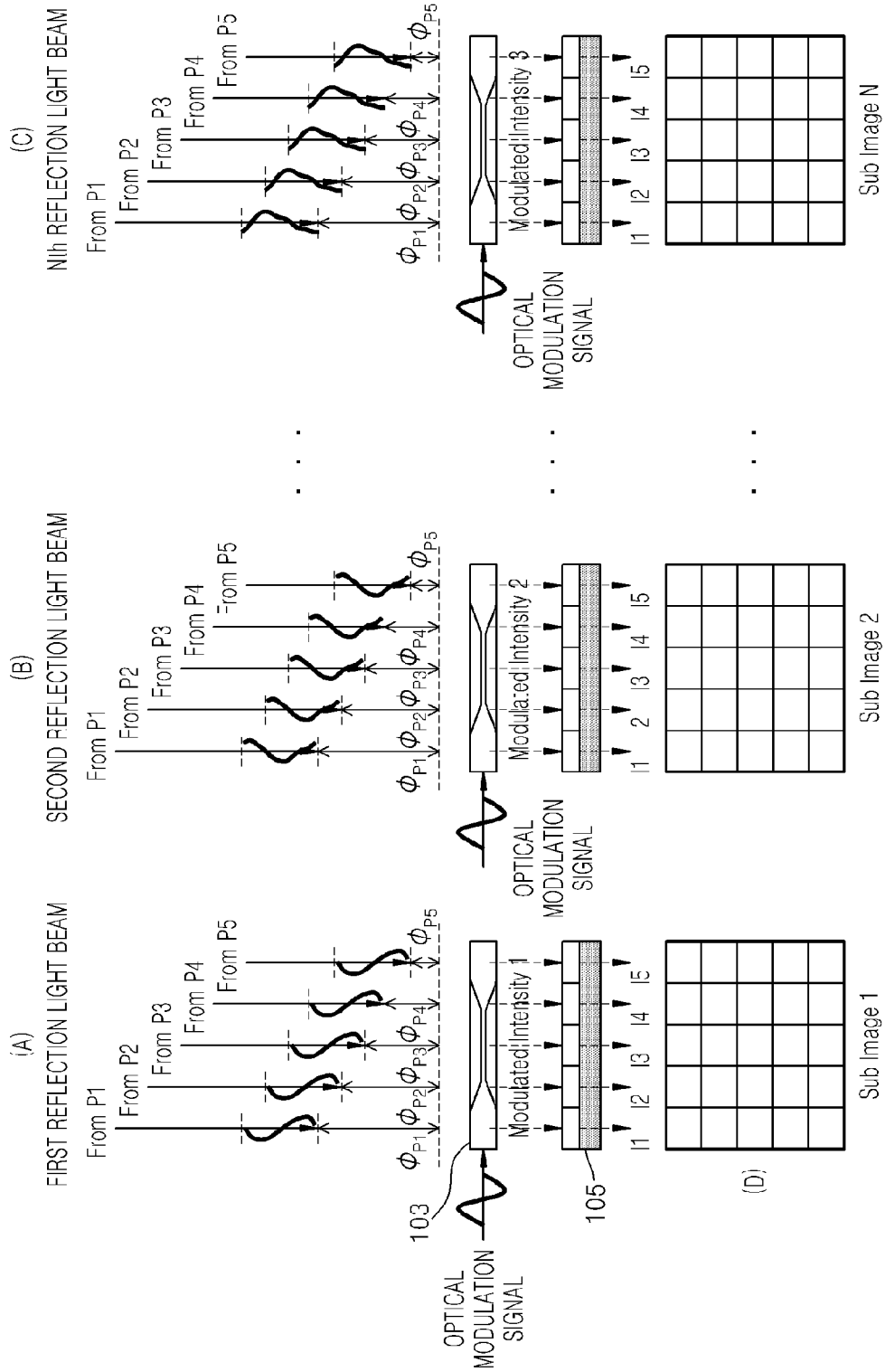


FIG. 3

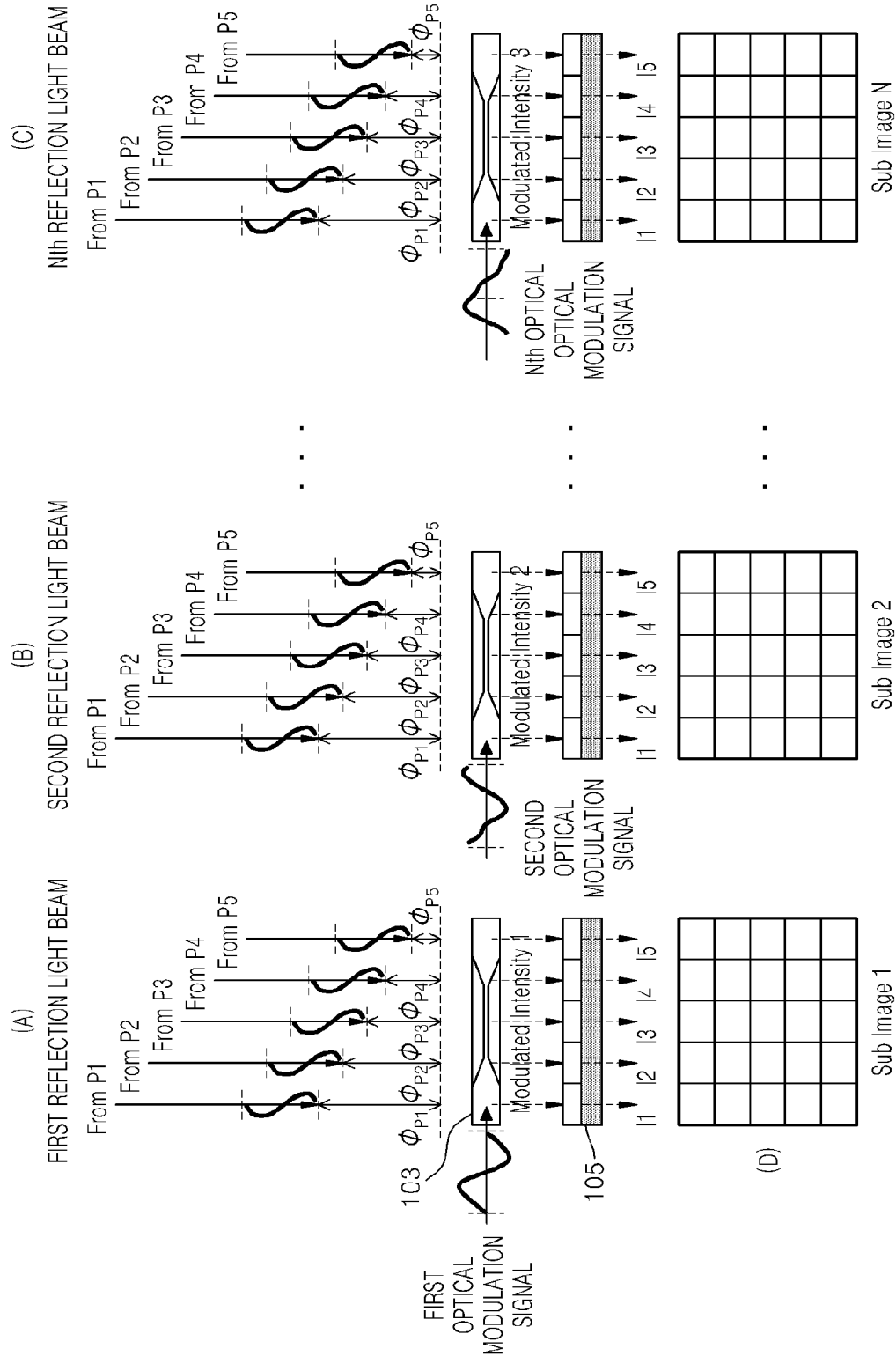
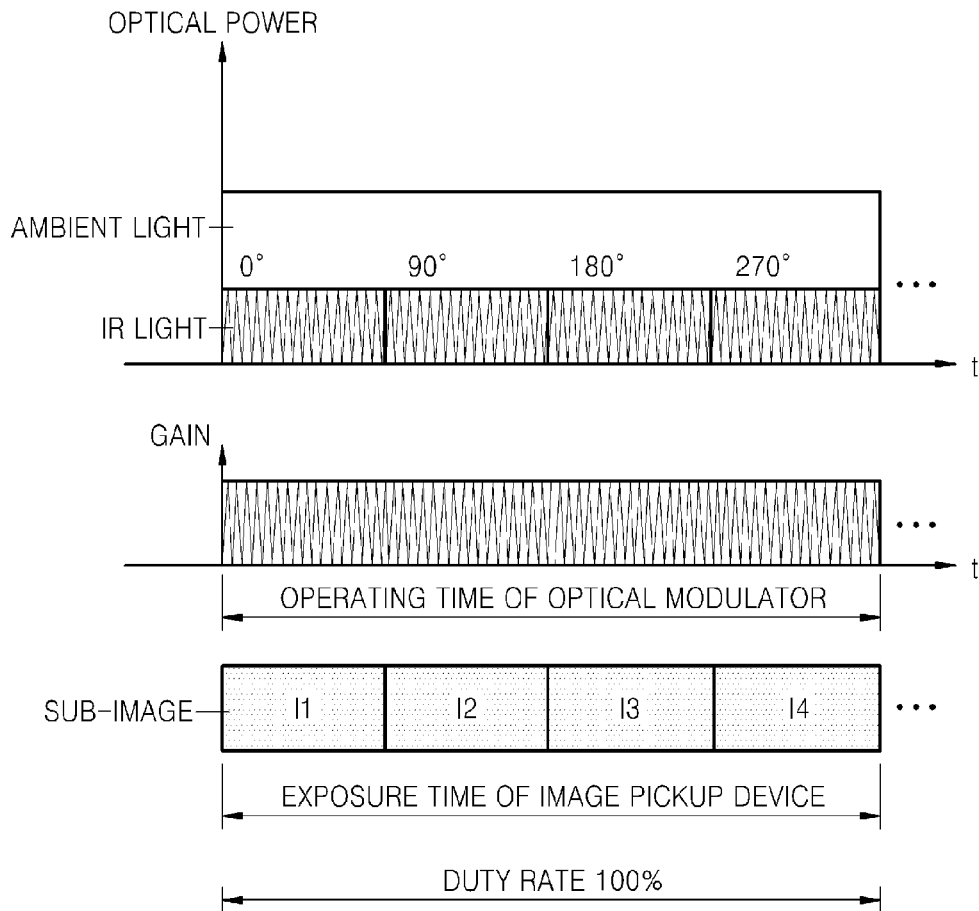


FIG. 4A



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