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Publication	Title	Page
US2015356708 (A1)	TARGET IMAGE GENERATION UTILIZING A F...	2

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(54) **TARGET IMAGE GENERATION UTILIZING A FUNCTIONAL BASED ON FUNCTIONS OF INFORMATION FROM OTHER IMAGES**

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(57) **ABSTRACT**

An image processing system comprises an image processor configured to construct a designated functional based on a plurality of functions each associated with a corresponding portion of image information relating to at least first and second images, and to generate a target image utilizing the constructed functional. For example, the functions may comprise a set of functions $f_1(A_1)$, $f_1(A_1)$, . . . , $f_1(A_1)$ of pixels from respective input images A_1, A_2, A_L of the image information, and the functional may be a function $F(X)$ of the set of functions $f_1(A_1)$ $f_2(A_L)$, $f_L(A_L)$ where X denotes the target image and is generated by minimizing the functional $F(X)$. The input images may be received from one or more image sources and the target image may be provided to one or more image destinations.