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(54) **PROJECTING IMAGES ON A SPHERICAL VENUE**

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(57) **ABSTRACT**

Systems, methods, and apparatuses disclosed herein can retrieve an image or a series of images, often referred to as video, that can be projected onto a media plane of a venue. These systems, methods, and apparatuses can transform the image from two-dimensions to three-dimensions for projection onto the media plane. As part of this transformation, these systems, methods, and apparatuses can logically segment the media plane into multiple slices of the media plane and the image into multiple slices of the image. Thereafter, these systems, methods, and apparatuses can project one or more pixels of the slices of the media plane onto an image space of an image slice to provide one or more points on the image slice. These systems, methods, and apparatuses thereafter weighs and accumulates color information of one or more pixels from the image slice that are nearby the one or more points on the image to interpolate color information, of the pixels of the media plane.