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(54) Title: DISPERSION COMPENSATION IN DIFFRACTIVE AUGMENTED REALITY SYSTEMS

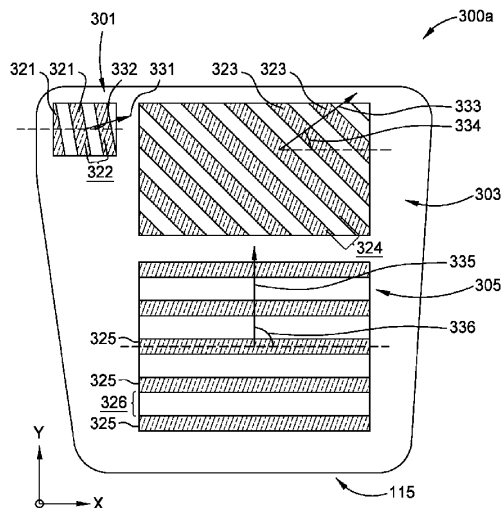


FIG. 3A

(57) Abstract: The present disclosure relates to augmented real-
ity devices and related methods. In one or more embodiments, an
augmented reality device includes a projection system and a wave-
guide. The projection system includes a projector and a prism. The
projector projects an image along the projector's major axis. The
prism refracts the image having a first spectrum, a second spec-
trum, and a third spectrum. The waveguide is disposed at a wrap
angle from a plane formed from the major axis of the projector.
The waveguide includes an input coupler and an output coupler.
The input coupler includes input structures at an input period and
an input orientation and the input coupler is configured to receive
the spectrums at different corresponding input angles. The output
coupler includes output structures at an output period and an output
orientation and the output coupler out couples the respective spec-
trums at an about equal output angle.

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