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(54) Title: SYSTEMS AND METHODS FOR GROUND COLLISION AVOIDANCE

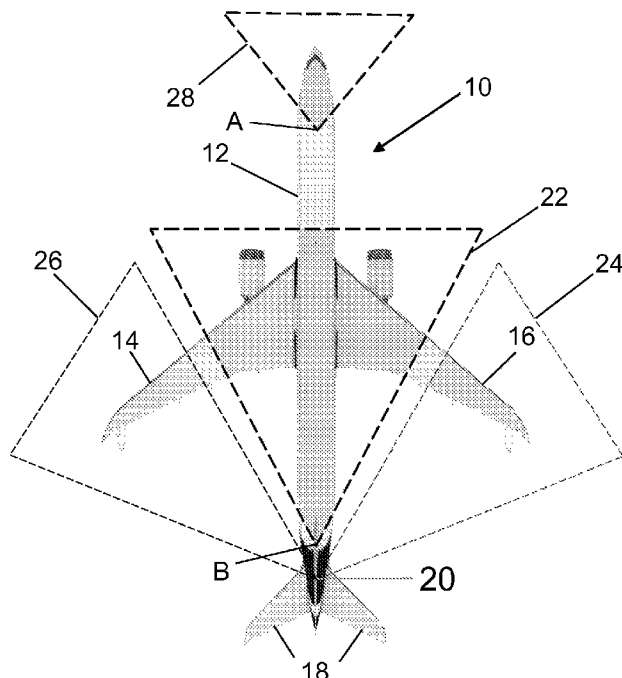


FIG. 1

(57) Abstract: A system for displaying guidance aids to a crew for ground obstacle avoidance, particularly wingtip clearance. Perspective areas are drawn representing the current locations of the wingtips over the ground and predicted locations out into the future for a specified time or a specified distance. A flight crew may use these displayed guidance aids to determine the proximity of any perceived threat to the airplane. This capability addresses the costly problem of wingtip/airplane ground collisions. The disclosed graphical cue systems are specifically targeted toward aircraft that have a large wing span/size and/or folding wingtips.



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