

ABSTRACT

METHOD FOR CONTROLLING AN AERODYNE FOR THE VERTICAL AVOIDANCE OF A ZONE.

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For automatically controlling an aerodyne for the vertical avoidance of a fixed zone, the method according to the invention comprises in succession: the acquiring (21) of the limits of the zone to be avoided, and the modelling of the zone by a cylindrical volume (10) delimited by the horizontal contour and the upper and lower altitudes of the zone, the locating of the volume (10) with respect to the scheduled route (2, 2') of the aerodyne (1), the determining (41) of the points of entry (Z) and of exit (Z') of the scheduled route (2, 2') in the cylindrical volume (10), the calculating of a new flight altitude for the vertical avoidance of the zone (10), and of a point of change of altitude (A1, B1) so as to reach the avoidance altitude, and the updating (28) of the new flight altitude, and the inputting of the position of the point of change of altitude (A1, B1) into the automatic piloting device.

Figure 1