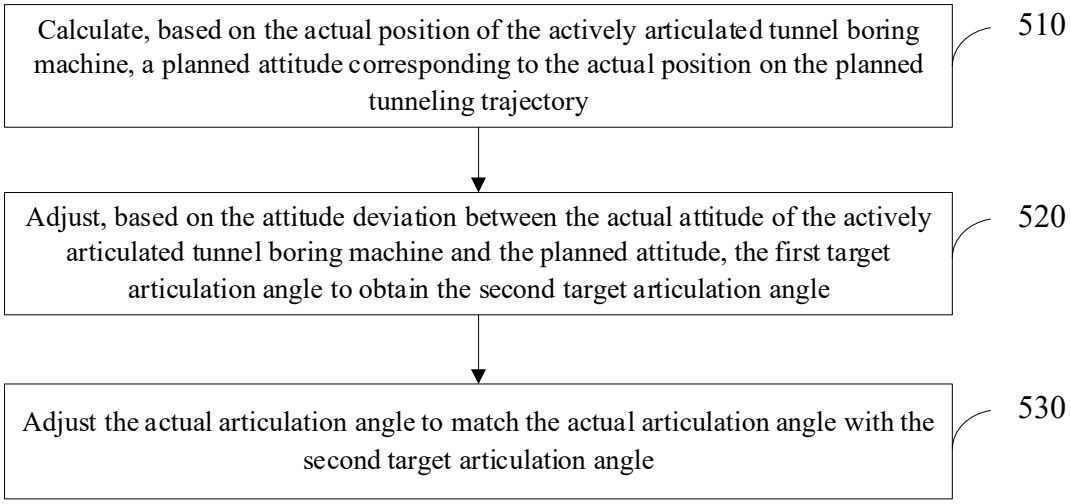

Calculate, based on the actual position of the actively articulated tunnel boring machine, a planned attitude corresponding to the actual position on the planned tunneling trajectory
510
Adjust, based on the attitude deviation between the actual attitude of the actively articulated tunnel boring machine and the planned attitude, the first target articulation angle to obtain the second target articulation angle
520
Adjust the actual articulation angle to match the actual articulation angle with the second target articulation angle
530

Fig. 5

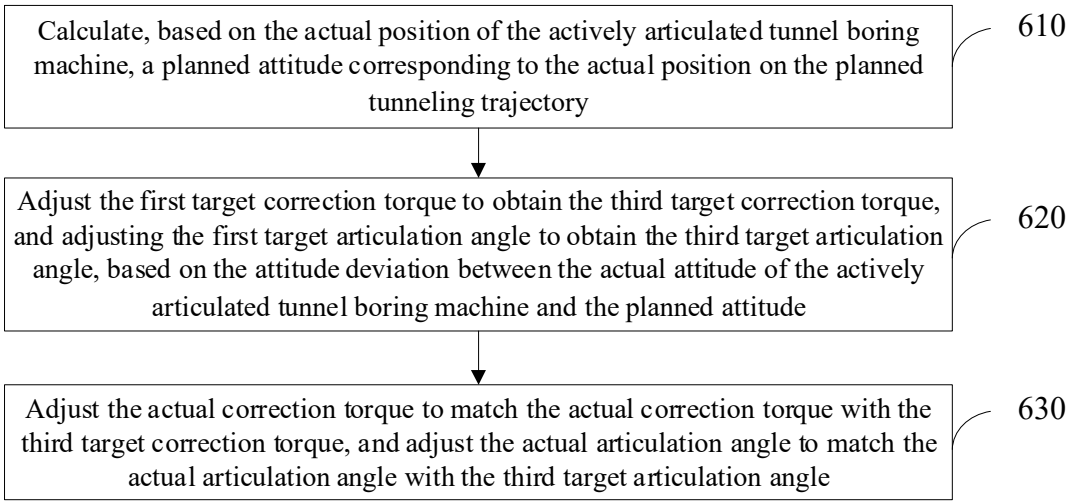

Calculate, based on the actual position of the actively articulated tunnel boring machine, a planned attitude corresponding to the actual position on the planned tunneling trajectory
610
Adjust the first target correction torque to obtain the third target correction torque, and adjusting the first target articulation angle to obtain the third target articulation angle, based on the attitude deviation between the actual attitude of the actively articulated tunnel boring machine and the planned attitude
620
Adjust the actual correction torque to match the actual correction torque with the third target correction torque, and adjust the actual articulation angle to match the actual articulation angle with the third target articulation angle
630

Fig. 6