

OPTICAL DISC INCLINATION DETECTING METHOD, OPTICAL
PICKUP DEVICE, AND OPTICAL DISC DEVICE

ABSTRACT OF THE DISCLOSURE

To propose an optical disc inclination detecting method, an optical pickup device, and an optical disc device capable of detecting the radial tilt of a disc at a high precision by a simple constitution.

In the optical disc inclination detecting method, from the reflected light from an optical disc (7), detection signals from detectors A to H at a main spot and both side spots or in the track crossing direction of both sides spots are subtracted or added to generate a DPD signal or a three-spot error signal, while a DPD signal is generated by comparing the phases of detection signals of detectors A to D in a direction orthogonal to the track crossing direction of the main spot, and their differential operation value is determined, and the inclination angle of the optical disc is detected on the basis of the differential operation value, thereby detecting the radial tilt angle of the optical disc.

Figure 1