

END POINT DETECTION METHOD, POLISHING APPARATUS,
AND POLISHING METHOD

ABSTRACT

To improve accuracy of polishing end point detection, provided is an end point detection method of detecting an end point based on a drive current supplied to a drive unit (first electric motor or second electric motor) that rotates and drives one of a polishing table that holds a polishing pad and a holding unit (top ring) that holds a polishing target and presses the polishing target against a polishing pad. The end point detection method includes: a step (S102) of determining whether a polishing condition of a polishing process to be executed coincides with a preset specific polishing condition; a step (S103) of adjusting a current control parameter in a drive control unit (motor driver) that controls the drive current, the current control parameter related to a change in the drive current with respect to a change in a driving load of the drive unit, if it is determined that the polishing condition coincides with the specific polishing condition; and a step (S105) of detecting the drive current supplied to the drive unit based on the adjusted current control parameter and detecting an end point of polishing based on the detected drive current.

Figure 8