

EDDY CURRENT SENSOR

ABSTRACT OF THE DISCLOSURE

An eddy current sensor 1-50 arranged in the vicinity of a substrate includes a core part 1-60 and a coil part 1-61. The core part 1-60 includes a common part 1-65, and four cantilever parts 1-66 to 69 connected to the common part 1-65. Ends of a first cantilever part 1-66 and a second cantilever part 1-67 are close and adjacent to each other. Ends of a third cantilever part 1-69 and a fourth cantilever part 1-68 are close and adjacent to each other. At the common part 1-65, an excitation coil is arranged. A first detection coil 1-631 is arranged at the first cantilever part 1-66 and a second detection coil 1-632 is arranged at the second cantilever part 1-67. A first dummy coil 1-642 is arranged at the third cantilever part 1-69, and a second dummy coil 1-641 is arranged at the fourth cantilever part 1-68.

Selected Drawings: FIG. 5