

DESCRIPTION

~~METHOD FOR RESUMING WIRE SAW OPERATION~~

TECHNICAL FIELD

[0001]

The present invention relates to a wire saw that slices a workpiece such as a semiconductor ingot by pressing the workpiece against a wire to which a slurry is supplied, and more particularly to a method of resuming operation of the wire saw when the wire is broken.

BACKGROUND ART

[0002]

Wire saws have been known as means for slicing workpieces such as semiconductor ingots into wafers. A wire saw has a wire row formed by winding a slicing wire around a plurality of grooved rollers multiple times, and is configured to slice a workpiece simultaneously at each wire position by causing the slicing wire to travel in the direction of a wire axis at a high speed and feeding the workpiece toward the wire row while supplying a slurry properly.

[0003]

FIG. 1 schematically shows an exemplary wire saw.

As shown in FIG. 1, the wire saw 1 has a wire 2 to slice a workpiece W. The wire 2 is unreeled from a wire reel 6 on a supply side and enters a group of grooved rollers 3. The wire 2 is wound around the grooved rollers 3 about 300 to 500 times so as to form the wire row. The wire 2 further exits from the group of grooved rollers 3 and is reeled by a wire reel 6' on a

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