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WORKPIECE RETAINING DEVICE AND METHOD FOR PRODUCING THE SAME

ABSTRACT OF THE DISCLOSURE

5 A retaining device retains a workpiece to allow
the workpiece to slide against a polishing pad located on
a polishing board opposed to the retaining device. The
retaining device includes a plate including a permeable
portion and a seal portion having a lower permeability
and provided around an outer periphery of the permeable
10 permeable portion. By absorbing air toward a first surface of the
permeable portion, the workpiece is attached and attract-
ed to a second surface of the permeable portion opposite
to the first surface. The retaining device further
includes a retainer ring provided on an outer peripheral
portion of the plate for preventing an outer edge of the
15 workpiece from being overhung by polishing; and a backup
ring located between the plate and the retainer ring for
putting the retainer ring into pressure contact with the
polishing pad. Since the workpiece can be attached and
attracted to or released from the plate by a simple
20 operation, the time required for retaining the plate is
shortened. Further, the damage to other machines and
equipment used for workpiece retaining which is caused by
the polishing liquid is alleviated, and thus the mainte-
nance of such machines and equipment becomes easier.
25 Moreover, the flatness of the polished workpiece is
improved.

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