

Abstract:**Apparatus and method for simultaneously slicing a multiplicity
of slices from a workpiece**

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Apparatus and method for simultaneously slicing a multiplicity
of slices from a workpiece. The method comprises holding the
workpiece with an axis of the workpiece parallel to axes of
wire guide rolls of a wire saw by means of a feed device of the
10 wire saw;

moving the workpiece by means of the feed device
perpendicularly from above through a web of the wire saw,
wherein the web is formed from a multiplicity of wire sections
running parallel to one another and in one plane;

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supplying a slurry of hard substances in a carrier liquid as
abrasive to the wire sections while the wire sections describe
a relative movement with respect to the workpiece as a result
of rotation of the wire guide rolls with a continual change in
the direction of rotation, which relative movement guides the
20 wire sections from an entry side to an exit side through the
workpiece;

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spraying a coolant from the side and from below into slicing
gaps that arise during the movement of the workpiece through
the web, wherein the coolant is sprayed through nozzles into
25 the slicing gaps, which are arranged below the web parallel to
the axes of the wire guide rolls, and wherein the coolant is
sprayed into the slicing gaps only through the nozzle situated
opposite the entry side of the wire sections.

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Fig. 1