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DEVICE FOR WATER JET CUTTING PROCESSES

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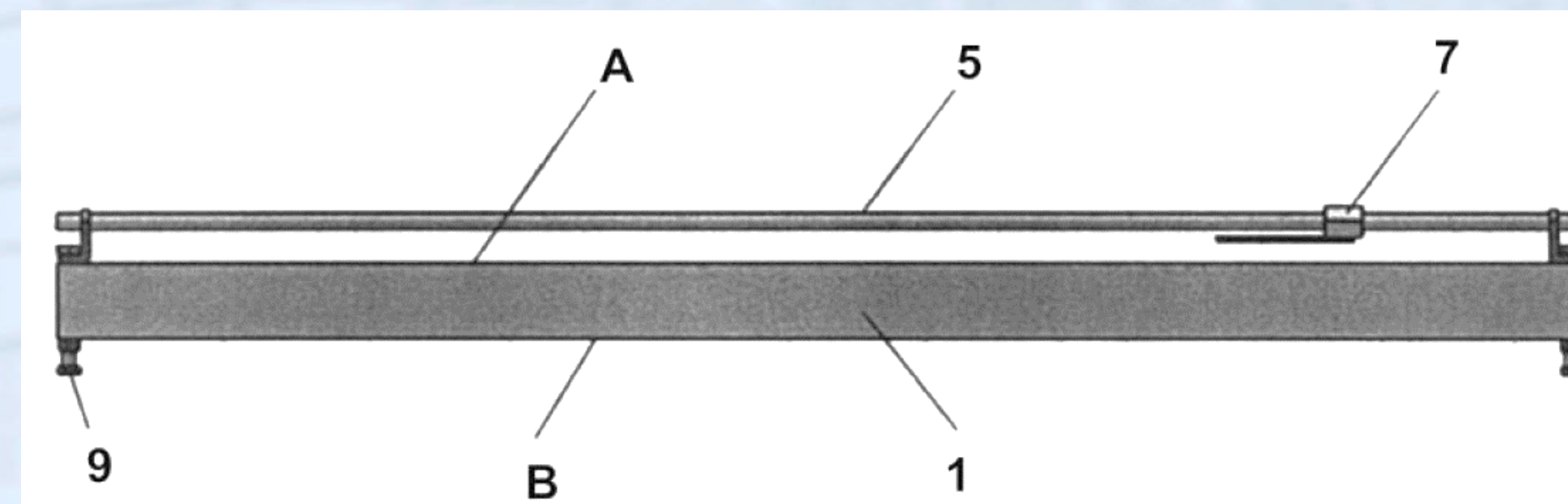
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This invention relates to a device for waterjet/abrasive waterjet cutting used in the machine construction industry. The technical problem this device solves is extending the lifespan of the grates to which the pieces to be processed are attached.

This device, designed for waterjet cutting operations, eliminates the drawbacks of known devices in that the frame has two working surfaces and the possibility to change the working surface in relation to the adjustable legs and some guiding elements for the workpiece located at the top of the frame.

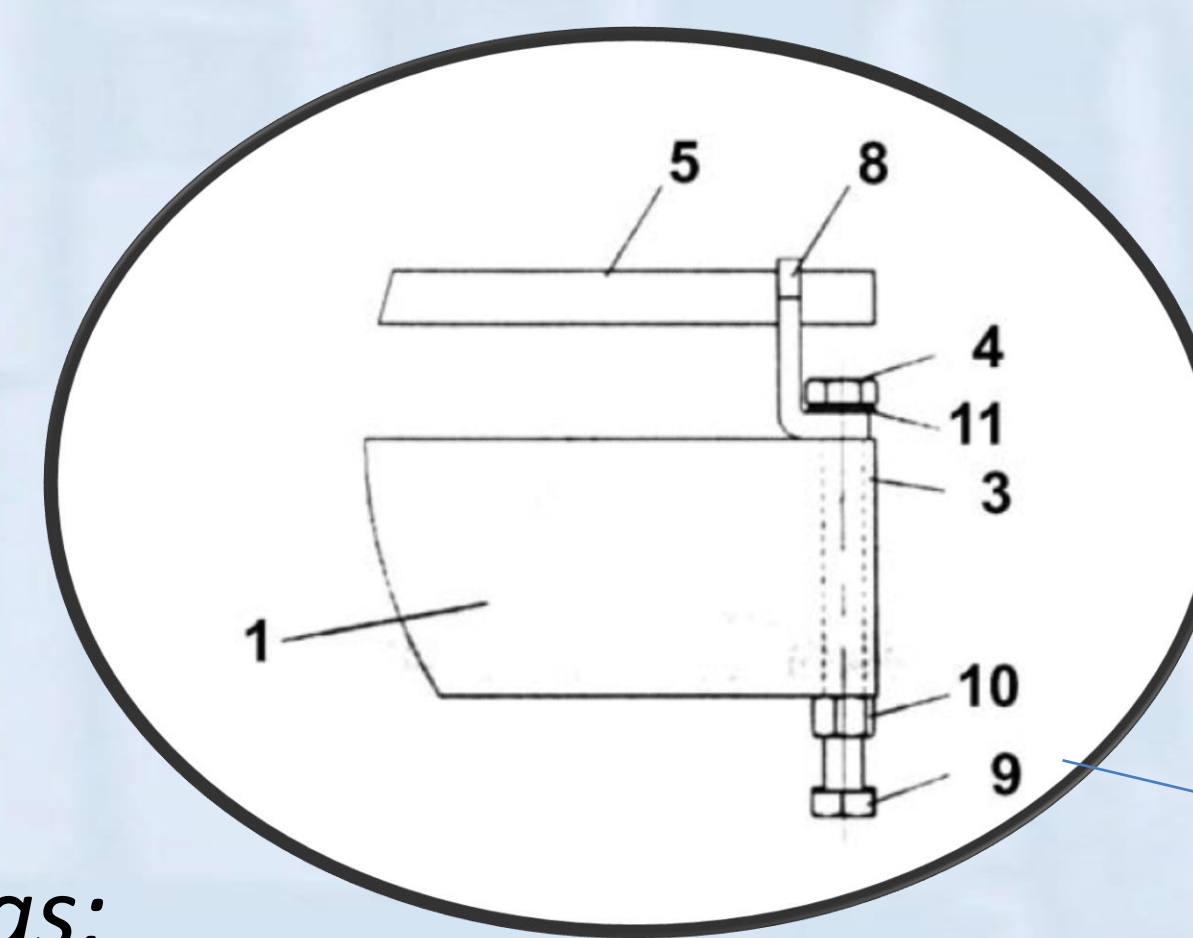
Claims:

- The patent pertains to a device for water jet or abrasive water jet machining, used in the machinery construction industry.
- The device according to the invention consists of a 100 mm high honeycomb-type metal frame (1) with two faces (A and B), support elements (2) at a height of 100 mm, constructed through welding, adjustable feet (9) to ensure the device's horizontal alignment, guide elements (5), a slide (6), and a slider (7), all of which are necessary for positioning the workpiece to be machined with a water jet on the surface of the metal frame (1).

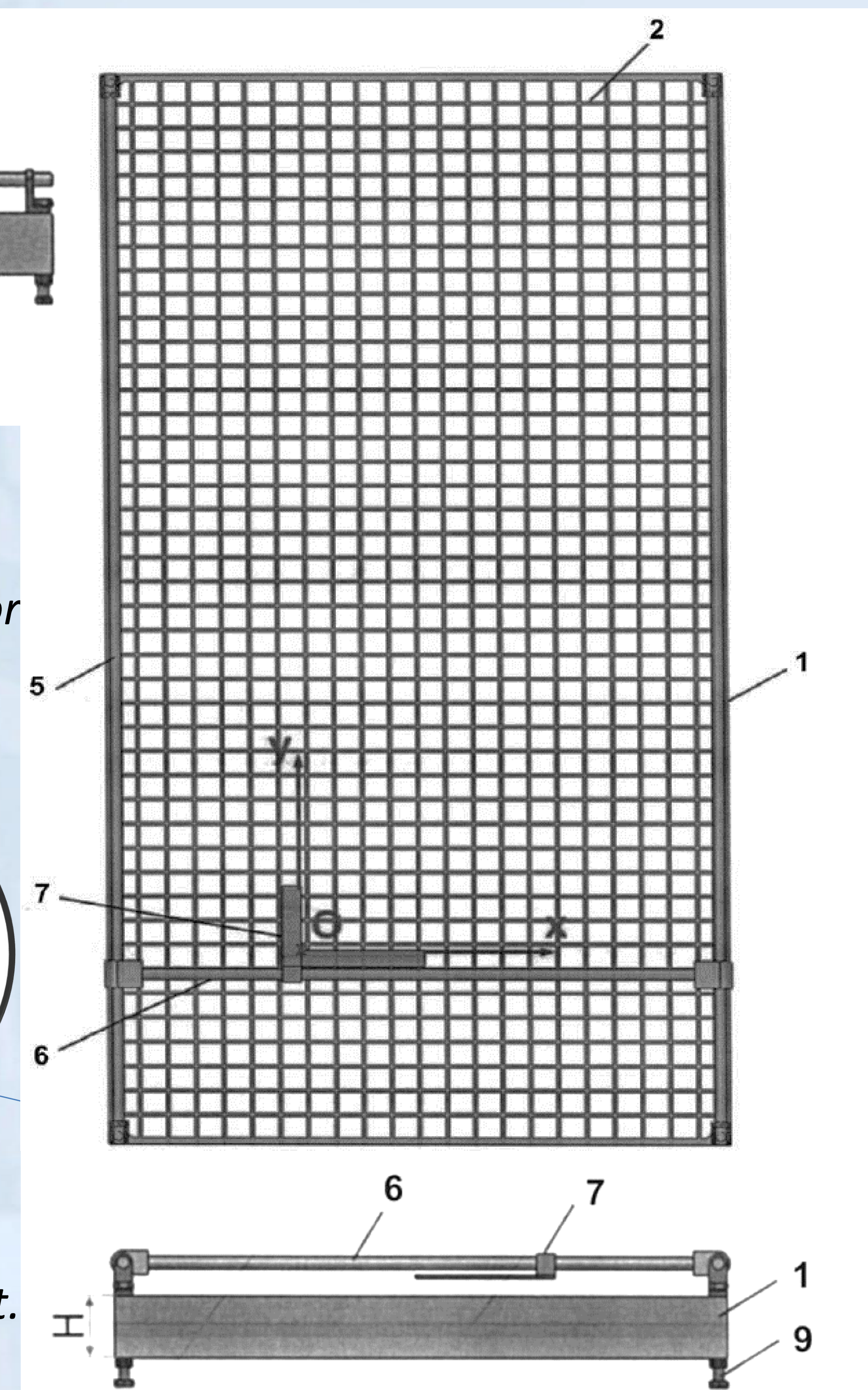


Components:

- (1) frame;
- (2) arrangement of workpiece placement elements for cutting;
- (3) fixed feet support;
- (4) clamping nut;
- (5) guiding elements;
- (6) slide;
- (7) sliding rail;
- (8) support for guiding elements;
- (9) adjustable feet;
- (10) nut for securing adjustable legs;
- (11) washer.



(A), (B) working surfaces of the workpiece support.



Advantages:

- it is designed in such a way that the two working surfaces, A and B, can be used for arranging, positioning, and securing the workpieces;
- the proposed solution allows for easy levelling of the working surfaces by adjusting their positions;
- correct and easy positioning of the workpieces on the working surfaces can be achieved;
- it is easy to establish a zero point (origin) for the Ox and Oy axes within the working surface area.

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