MOBILE MULTISTAGE WASHER

Description
Mobile multistage washer with an improved sluice mechanism is equipped with a hydraulic baffle (for small placers) or a hydraulic elevator.

Technical specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
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<tbody>
<tr>
<td>Efficiency</td>
<td>600m$^3$/day</td>
</tr>
<tr>
<td>Hydraulic baffle length</td>
<td>9.48m</td>
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<tr>
<td>Power</td>
<td>4 kWh/m$^3$</td>
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<tr>
<td>Sluice length</td>
<td>13.5m</td>
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<tr>
<td>S/L ratio (solid/liquid ratio in the pulp)</td>
<td>1:20</td>
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<tr>
<td>Gold recovery</td>
<td>94.8%</td>
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Technical appraisal and economic benefits

The washer has the following advantages against its analogs:

- pre-sluicing in water pulp immediately in the hydraulic baffle and in the hydraulic baffle bosh;
- separate sluicing of coarse and fine fractions to enlarge the sieving area and enhance efficiency;
- grain size control of pulp flow by fitting sluice slope;
- additional recovery of floating gold by special hydraulic cups;
- 16-20% higher recovery;
- better usability due to a fenced platform;
- higher mobility due to metal skates;
- time saving;
- straightforward design and high reliability;
- possibility for machine shop manufacturing;
- easy and quick transport of washer pump from one site to another using a bulldozer (17-20 hours against 40-48 hours in the analogs).

Application areas
Placers of any type and grade.

Development stage
Technical documents are available. Two-stage washers manufactured at the Tshipikansk placer (Buryatia) have been successfully tested and are currently operated at four gold placers.

Patent situation

Commercial offers
- Investment contract for commercialization of the project
- Offering technical documents on the hydraulic washer with a hydraulic trap.

Estimated cost
The estimated cost of design drawing is about 10,000 $.

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