ACOUSTIC-SHOCK TECHNOLOGY 
FOR DRESSING GOLD-BEARING SANDS

Description
The acoustic-shock technology for dressing gold-bearing sands comprises a complex of means for activating mass-transfer processes in product lines of placer deposits.

Technical appraisal and economic benefits
The new principle of shock-wave generation used in the technology increases the rate of clay sand disintegration by a factor of 8-10 at a ratio S:L-1:1 and clay contents up to 80 %. This allows an increase in gold extraction by traditional gold extraction devices from 20-50 % to 75-95 % and provides for commissioning of new deposits unprofitable for traditional technologies.

Application areas
Gold extraction from sands with high clay content.

Development stage
Industrial tests at deposits of the Krasnoyarsk Region are being carried out.

Patent situation
The technology and design are protected by patents of the Russian Federation.

Commercial offers
Study of the technological parameters of disintegration processes, design of process installations and their manufacture at the machine-building plant in Krasnoyarsk and observation on the work. Sale of process installations.

Estimated cost
Laboratory installation: US$ 4,000;
Industrial installation: US$ 15,000.

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