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Abstract

Provide a micro-dispersion water of super-fine titanium-group metal grains offering
5 hair-repairing effects, as well as its production method and apparatus.

Efficiently produce a concentration-adjustable water solution of super-fine titanium-
group metal grains using a highly safe, compact production apparatus that comprises a
power supply for high-voltage/current discharge, a titanium-group metal electrode feeder,
an electrode-vibrating/sliding device, a high-voltage discharge generator equipped with a
10 titanium-group metal electrode and a counter electrode, a water tank, a water inlet to the
water tank, and an outlet for generated water solution of super-fine titanium-group grains,
wherein plasma discharge is caused between the titanium-group metal electrode and counter
electrode in water to let ion vapor of titanium-group metal contact and dissolve in water.

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