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The Director

of the United States Patent and Trademark Office has received an application for a patent for a new and useful invention. The title and description of the invention are enclosed. The requirements of law have been complied with, and it has been determined that a patent on the invention shall be granted under the law.

Therefore, this United States

Patent

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Donna H. Hull

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(12) **United States Patent**
Tarnava et al.

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(54) **COMPOSITION FOR PRODUCING HYDROGEN RICH WATER AND OTHER PRODUCTS**

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(58) **Field of Classification Search**
CPC A61K 33/00
See application file for complete search history.

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

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This patent is subject to a terminal disclaimer.

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(57) **ABSTRACT**

The invention provides compositions for producing hydrogen rich water, nutraceuticals, cosmetics, pharmaceuticals, and other products. In one embodiment, the invention provides a composition, e.g., a tablet, including magnesium metal, at least one water-soluble acid, and a binding agent. The magnesium metal and at least one water-soluble acid may be present in amounts sufficient to maintain a pH of less than 7, e.g., at a specific time period after reaction, and a concentration of at least 0.5 mM H₂ after reaction in 50 mL water in a container e.g., a sealed or an open container, e.g., at least 0.5 mM H₂ after reaction in 100 mL water or at least 0.5 mM H₂ after reaction in 500 mL water. The composition may also include a lubricant.

16 Claims, No Drawings