

- [54] **WELDING**
- [76] Inventor: **Yull Brown**, 182 Auburn Road, Auburn, New South Wales, Australia
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- [30] **Foreign Application Priority Data**
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- [52] **U.S. Cl.** ..... **204/270; 429/21; 204/129; 204/228; 204/229; 204/268; 204/269; 204/272; 431/354**
- [51] **Int. Cl.<sup>2</sup>** ..... **C25B 1/02; C25B 1/04**
- [58] **Field of Search** ..... **204/129, 270, 278, 228, 204/230, 237, 269, 229, 272, 271; 136/86 R; 55/3, 100; 29/498.5; 219/137; 431/354; 206/7**

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[57] **ABSTRACT**

This invention relates to welding, brazing or the like utilizing a mixture of hydrogen and oxygen generated in substantially stoichiometric proportions in an electrolytic cell by electrolytic dissociation of water, the mixture so generated being passed from the generator through a flash-back arrestor and thence to a burner where the gases are ignited. The invention also relates to atomic welding in which the above mentioned mixture is passed through an arc causing dissociation of both the hydrogen and oxygen into atomic hydrogen and oxygen which on recombination generate an intensely hot flame.

- [56] **References Cited**
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**6 Claims, 7 Drawing Figures**

