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(57) Abstract :

A UNIVERSAL CHAIR-SIDE ORTHODONTIC HANDY SPOT WELDER WITH A SPRING-LOADED HANDLE ABSTRACT 5
A universal orthodontic handy spot welder (200) is provided. The welder includes a spring-loaded handle (100) for welding in an orthodontic procedure. The welder further includes a transformer (212) including a primary coil (218) and a secondary coil (220) for controlling a voltage supplied to the spring-loaded handle (100). The welder further includes a main switch (206) for controlling the circuit of the primary coil (218). The welder further includes a fuse (204) connected between the main switch (206) and a power supply (202). The welder further includes a foot control (208) connected between the main switch (206) and the primary coil (218) for controlling the intensity of welding performed using the spring-loaded handle (100), by a user. The welder further includes a weld intensitometer (210) configured for controlling an intensity of welding and connected between the primary coil (218) and the main switch (206). 20 Figures 2 and 5

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