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(71)Name of Applicant :

**1)JSS Dental College and hospital, JSS Academy of Higher Education & Research**

Address of Applicant :Sri Shivarathreeswara Nagara, Mysuru, Karnataka, India 570015 Mysore -----

**Name of Applicant : NA**

**Address of Applicant : NA**

(72)Name of Inventor :

**1)Dr. I Girish Kumar**

Address of Applicant :Department of Orthodontics & Dentofacial Orthopedics, JSS Academy of Higher Education & Research, Mysore Mysore -----

**2)Dr. Raghunath N**

Address of Applicant :Department of Orthodontics & Dentofacial Orthopedics, JSS Academy of Higher Education & Research, Mysore Mysore -----

**3)Jayachandran PP,**

Address of Applicant :Department of Dental Mechatronics, JSS Academy of Higher Education & Research, Mysore , Mysore -----

(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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