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(71) Applicant: **CELLAED LIFE SAVER PTY LTD**
[AU/AU]; 1 Lesley Close, Elanora Heights, New South
Wales 2101 (AU).

(72) Inventors: **TEBER, Erol**; 126 Bonds Road, Riverwood,
New South Wales 2210 (AU). **CASEY, Donovan**; 126
Bonds Road, Riverwood, New South Wales 2210 (AU).

(74) Agent: **DENTONS PATENT ATTORNEYS AUS-
TRALASIA LIMITED**; Level 43, Bourke Place, 600
Bourke Street, Melbourne, Victoria 3000 (AU).

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(54) Title: AUTOMATED EXTERNAL DEFIBRILLATORS WITH MULTIPLE, MULTIFUNCTIONAL ELECTRODE PAIRS

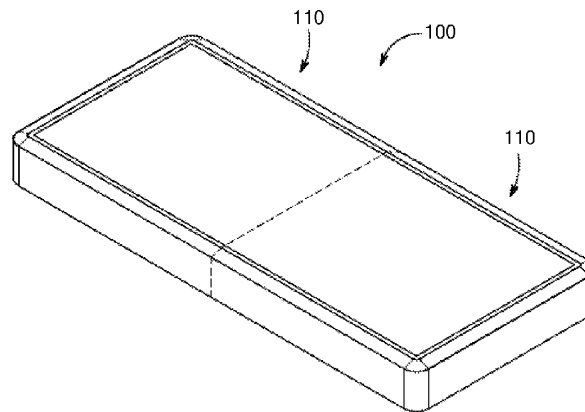


Figure 1

(57) Abstract: An automated external defibrillator (AED), comprising two pads to be placed on a patient, multiple electrode pairs provided on or between the two pads to perform multiple functions of electrical measurement and stimulation of the patient's heart, a switching circuit and a shock generation circuit connected to the multiple electrode pairs and a controller connected to the switching circuit and the shock generation circuit, wherein the controller is configured to perform spatial division multiplexing by rapidly switching between the multiple electrode pairs to automatically perform the multiple functions of electrical measurement and stimulation of the patient's heart using the multiple electrode pairs in multiple directions.

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