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PATENT DETAILS

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(12) MALAYSIAN PATENT	(11)
(21) Application No.: PI 2016000720 (22) Filing date: 25 Apr 2016 (43) Date Open To Public: 25 Oct 2017 (30) Priority Data: None (51) Classification, ICT CL: H01M 8/00	(56) Prior Art: - (72) Inventor(s): RAMESH A/L T. SUBRAMANIAM LIEW CHIAM WEN (73) Patent Owner: UNIVERSITI MALAYA, UNIVERSITI MALAYA, Wilayah Persekutuan, Kuala Lumpur 50603, Malaysia (74) Agent: CHONG CHUN MUN, C/O LONGWOOD ASSETS SDN BHD, SUITE 5-1-2, BLOCK F, JALAN 4/101C, CHERAS BUSINESS CENTRE, CHERAS 56100 KUALA LUMPUR, Malaysia
(54) Title: A METHOD FOR PREPARING A POLYMER ELECTROLYTE USING IONIC LIQUID AND INCREASING IONIC CONDUCTIVITY, AND A POLYMER ELECTROLYTE MADE THEREFROM FOR EDLC APPLICATION	
(57) Abstract: ABSTRACT THE PRESENT INVENTION RELATES TO. ACCORDING TO ONE ASPECT, A METHOD FOR PREPARING A POLYMER ELECTROLYTE USING IONIC LIQUID, AND ACCORDING TO ANOTHER ASPECT, A POLYMER ELECTROLYTE MADE THEREFROM FOR ELECTRIC DOUBLE LAYER CAPACITOR (EDLC) APPLICATION. THE IONIC CONDUCTIVITY OF THE POLYMER ELECTROLYTE RANGES FROM 8 TO 11 MS CM-1 AT A TEMPERATURE RANGING FROM 22°C TO 26°C; THE GLASS TRANSITION TEMPERATURE (TG) OF THE POLYMER ELECTROLYTE IS IN THE RANGE FROM 22°C TO 47°C; THE PERCENTAGE OF CRYSTALLINITY IS SUBSTANTIALLY IN THE RANGE FROM 1% TO 3%; AND THE ELECTROCHEMICAL POTENTIAL OF THE POLYMER ELECTROLYTE RANGES FROM 3.3 V TO 3.8 V. THE POLYMER ELECTROLYTE IS FOR FORMING AN ELECTRIC DOUBLE LAYER CAPACITOR (EDLC). THE EDLC IS FORMED IN A CONFIGURATION OF ELECTRODE-POLYMER ELECTROLYTE-ELECTRODE AND THE ELECTRODES ARE ACTIVATED CARBON-BASED ELECTRODES. THE CAPACITANCE OF THE EDLC RANGES FROM 0.1 F G-1 TO 55 F G-1, THE ENERGY DENSITY OF THE EDLC RANGES FROM 5 W H KG-1 TO 9 W H KG-1, THE POWER DENSITY OF THE EDLC RANGES FROM 40 KW KG-1 TO 60 KW KG-1 AND THE COULOMBIC EFFICIENCY OF THE EDLC IS THE RANGE FROM 70% TO 85%. THE MOST ILLUSTRATIVE DRAWING: FIG 2	

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