

CN 114050232 Battery

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3	JP2021101432PUB	NONAQUEOUS ELECTROLYTE FOR BATTERY, LITHIUM SECONDARY BATTERY PRECURSOR, LITHIUM SECONDARY BATTERY, AND MANUFACTURING METHOD OF LITHIUM SECONDARY BATTERY NOGI YOSHINOBU, MITSUI CHEMICALS INC	07/08/2021	Add to eIDS collection View

3	CN113422105PUB	Lithium ion battery and electronic device ZENG CHANG'AN, ZHUHAI COSMX BATTERY CO LTD	09/21/2021	Add to eIDS collection	View
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1	US	18400403	12/29/2023	US 20240136582 A1  (04/25/2024), US 12347829 B2  (07/01/2025)	
2	CN	202111396652	11/23/2021	CN 114050232 A  (02/15/2022), CN 114050232 B  (08/16/2022)	Section: 全文 A Claims: 1-8

2	CN111463497PUB	Method for improving local deformation of high-energy-density flexible package ion battery and battery WANG YANFEI, SHANDONG JUXIN NEW ENERGY SCIENCE AND TECH CO LTD	07/28/2020	 Add to eIDS collection	View
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2	JP2019192339PUB	SECONDARY BATTERY SEPARATOR, SECONDARY BATTERY LAMINATE AND WOUND BODY INCLUDING THE SAME, AND NON-AQUEOUS SECONDARY BATTERY NISHIURA KATSUNORI, MITSUI CHEMICALS INC	10/31/2019	 Add to eIDS collection	View
2	CN203434247PUB	Nickel cobalt lithium manganate cylindrical high-magnification battery ZHU QUANJIAN, HENAN BIDEI ENERGY SOURCE SCIENCE & TECHNOLOGY CO LTD	02/12/2014	 Add to eIDS collection	View
2	CN110224169PUB	Lithium ion battery with high energy density WANG CEN, AMPRIUS NANJING CO LTD	09/10/2019	 Add to eIDS collection	View

2	WO2015064411PUB	PARTICULATE POLYMER FOR USE IN BINDER FOR LITHIUM-ION SECONDARY BATTERY; ADHESIVE LAYER; AND POROUS-MEMBRANE COMPOSITION SASAKI TOMOKAZU, ZEON CORP	05/07/2015	Add to eIDS collection	View
2	WO2021149310PUB	LITHIUM PRIMARY BATTERY, AND NON-AQUEOUS ELECTROLYTE SOLUTION FOR LITHIUM PRIMARY BATTERY SAITO KOHEI, PANASONIC IP MAN CO LTD	07/29/2021	Add to eIDS collection	View
2	JP2013225388PUB	BATTERY AND ELECTROLYTE, AND BATTERY PACK, ELECTRONIC APPARATUS, ELECTRIC VEHICLE, POWER STORAGE DEVICE AND ELECTRIC POWER SYSTEM HASHIMOTO HIROKI, SONY CORP	10/31/2013	Add to eIDS collection	View
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2	CN	202111396648	11/23/2021	CN 114094167 A ↗ (02/25/2022), CN 114094167 B ↗ (12/19/2023)	Section: 全文 A Claims: 1-7
2	CN207705300PUB	Cylindrical lithium ion battery's negative pole piece and battery pole group of preparation thereof WANG PENGFEI, LISHEN BATTERY SUZHOU CO LTD	08/07/2018	Add to eIDS collection	View
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2	US20200075928PUB	METHOD FOR MANUFACTURING LITHIUM SECONDARY BATTERY KANG YOONAH, LG CHEMICAL LTD	03/05/2020	Add to eIDS collection	View
2	WO2018179782PUB	NON-AQUEOUS ELECTROLYTE SECONDARY BATTERY MINAMI HIROSHI, PANASONIC IP MAN CO LTD	10/04/2018	Add to eIDS collection	View
2	CN109301318PUB	Polymer electrolyte, preparation method thereof, and all-solid lithium ion battery prepared therewith LIU HAO, CHENGUANG FLUORO & SILICONE ELASTOMERS CO LTD	02/01/2019	Add to eIDS collection	View
2	US20060046137PUB	Battery KODAMA YASUNOBU, SANYO ELECTRIC CO	03/02/2006	Add to eIDS collection	View
2	CN114094167PUB	Battery MU YINGDI, ZHUHAI COSMX BATTERY CO LTD	02/25/2022	Add to eIDS collection	View
2	CN112072180PUB	Electrolyte and lithium ion battery comprising same MU YINGDI, ZHUHAI COSMX BATTERY CO LTD	12/11/2020	Add to eIDS collection	View
2	CN114094048PUB	Battery MU YINGDI, ZHUHAI COSMX BATTERY CO LTD	02/25/2022	Add to eIDS collection	View
2	CN113471569PUB	Pole piece, electrochemical device and electronic device ZHANG NAN, NINGDE AMPEREX TECHNOLOGY LTD	10/01/2021	Add to eIDS collection	View

2	JP2019179741PUB	NONAQUEOUS ELECTROLYTE SECONDARY BATTERY AND METHOD FOR MANUFACTURING NONAQUEOUS ELECTROLYTE SECONDARY BATTERY NONAKA TAIKI, SANYO ELECTRIC CO	10/17/2019	Add to eIDS collection	View
2	US20090297949PUB	Lithium Primary Cells BERKOWITZ FRED J,	12/03/2009	Add to eIDS collection	View
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2	JP2014127242PUB	LITHIUM SECONDARY BATTERY NAGAOKA SHUICHI, HITACHI MAXELL	07/07/2014	Add to eIDS collection	View
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2	US20180131034PUB	SECONDARY BATTERY OURA YUJI, PANASONIC IP MAN CO LTD	05/10/2018	Add to eIDS collection	View
2	CN114122638PUB	Battery LI SULI, PEARL HUAI GIAU BATTERY CO LTD	03/01/2022	Add to eIDS collection	View
2	CN107615549PUB	ELECTROCHEMICAL ENERGY STORAGE DEVICE AND METHOD FOR PREPARING ELECTROCHEMICAL ENERGY STORAGE DEVICE BAO JINZHEN, CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	01/19/2018	Add to eIDS collection	View
2	US20170084958PUB	NONAQUEOUS ELECTROLYTE SECONDARY BATTERY AND METHOD FOR MANUFACTURING THE SAME UEDA ATSUSHI, SANYO ELECTRIC CO	03/23/2017	Add to eIDS collection	View

2	JP2021166244PUB	ELECTROLYTE FOR ELECTROCHEMICAL DEVICE AND ELECTROCHEMICAL DEVICE TSUZUKI TAKEO, TAIYO YUDEN KK	10/14/2021	Add to eIDS collection	View
2	JP2000243444PUB	NONAQUEOUS ELECTROLYTIC SOLUTION AND SECONDARY BATTERY USING SAME TORIIDA MASAHIRO, MITSUI CHEMICALS INC	09/08/2000	Add to eIDS collection	View
2	JP2005011699PUB	LITHIUM SECONDARY BATTERY OGURA TAKAO, CANON KK	01/13/2005	Add to eIDS collection	View
2	JP2010073367PUB	NONAQUEOUS ELECTROLYTE, AND NONAQUEOUS ELECTROLYTE BATTERY YOSHIMURA KENTARO, SONY CORP	04/02/2010	Add to eIDS collection	View
2	KR20160058598PUB	ELECTROLYTE FOR LITHIUM SECONDARY BATTERY AND LITHIUM SECONDARY BATTERY CONTAINING THE SAME PARK JAE HWAN, PANAX ETEC CO LTD	05/25/2016	Add to eIDS collection	View
2	CN209434285PUB	Lithium ion battery ZHANG JINFENG, ZHUHAI COSMX BATTERY CO LTD	09/24/2019	Add to eIDS collection	View
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2	CN108219694PUB	Environment-friendly high temperature resistant terminating tape for lithium battery and preparation method of tape ZHU DONGHAI, SICHUAN DONGFANG INSULATING MAT CO LTD	06/29/2018	Add to eIDS collection	View
1	US20230178811PUB	ELECTROLYTE FOR LITHIUM SECONDARY BATTERY, AND LITHIUM SECONDARY BATTERY COMPRISING SAME PARK SOLJI, LG ENERGY SOLUTION LTD	06/08/2023	Add to eIDS collection	View
1	US20190109346PUB	ELECTROLYTIC SOLUTION, BATTERY, BATTERY PACK, ELECTRONIC DEVICE, ELECTRIC VEHICLE, ELECTRICAL STORAGE DEVICE, AND ELECTRIC POWER SYSTEM ODANI TORU, MURATA MANUFACTURING CO	04/11/2019	Add to eIDS collection	View
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1	JP2006286337PUB	NONAQUEOUS ELECTROLYTE SECONDARY BATTERY, AND ITS CHARGING METHOD OBAYASHI ATSUSHI, SANYO ELECTRIC CO	10/19/2006	Add to eIDS collection	View
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1	JP2003092140PUB	LITHIUM POLYMER SECONDARY BATTERY AND ITS MANUFACTURING METHOD NISHIJIMA SHUMEI, SHARP KK	03/28/2003	Add to eIDS collection	View
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1	JP2008010242PUB	CYLINDRICAL STORAGE BATTERY YOKOYAMA YOSHIKI, SANYO ELECTRIC CO	01/17/2008	Add to eIDS collection	View
1	JP2005126452PUB	PRESSURE-SENSITIVE ADHESIVE TAPE OR SHEET FOR WINDING FIXTURE OF LITHIUM ION BATTERY ELEMENT TERAJIMA TADASHI, NITTO DENKO CORP	05/19/2005	Add to eIDS collection	View
1	WO2018123088PUB	WOUND-TYPE BATTERY YAMANAKA HIDEAKI, MAXELL HOLDINGS LTD	07/05/2018	Add to eIDS collection	View

1	JP2002198099PUB	SHEET-LIKE LITHIUM SECONDARY CELL ZUSHI TOSHIHIRO, MITSUBISHI CABLE IND LTD	07/12/2002	Add to eIDS collection	View
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1	US20170179478PUB	POLYMER COMPOSITION AS A BINDER SYSTEM FOR LITHIUM-ION BATTERIES BRUCKMEIER; Christian,	06/22/2017	Add to eIDS collection	View
NON PATENT LITERATURE			ACTIONS		
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1	Notice of Reasons for Refusal issued in counterpart Japanese Patent Application No. JP 2023-579755, dated Jan. 28, 2025. DOI:10.1016/s1351-4210(11)70150-0	Add to eIDS collection
1	Torata et al., JP 2003092140 A, Machine Translation, 03-28-2003 (Year: 2003) DOI:10.3115/1075096.1075107	Add to eIDS collection
1	Takahashi et al., CN 108463907 A, Machine Translation, 08-28-2018 (Year: 2018) DOI:10.4324/9781315147536-9	Add to eIDS collection
1	See also references of WO 2023093743A1 DOI:10.5040/9781474225243.ch-006	Add to eIDS collection
1	See also references of EP 4345934A4 DOI:10.5040/9781474225243.ch-006	Add to eIDS collection
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1	International Search Report issued in corresponding PCT Application No. PCT/CN2022/133613, dated Feb. 7, 2023. DOI:10.1007/bf02661102	Add to eIDS collection
1	Yang, "Lithium difluorophosphate as an additive to improve the low temperature performance of LiNi0.5Co0.2Mn0.3O2/graphite cells; Electrochimica Acta (2016) p. 107-114 (Year: 2016) DOI:10.1016/j.electacta.2016.10.037	Add to eIDS collection

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