



Search Report

Application No.: 2020112496431		Date of Application: 20201110		First search	
Applicant: Zhuhai CosMX Battery Co., Ltd.		Earliest priority date:			
Number of claims: 10		Number of paragraphs in the description: 90+5			
IPC classification number determined by the examiner; H01M10/0587, H01M10/0525, H01M4/13, H01M50/536					
Search record information: CN209691836U: 20 CNABS, (((/in or Zhengfa Yu, Chong Peng, Xianfei Hu, Bo Song, Junyi Li, Yanming Xu) and (/pa Zhuhai CosMX+)) and (/ic/cpc H01M10/0583 or H01M10/0587)) and (pd <=20201110)					
CN109671987A: 22 CNABS, (/ic/cpc H01M10/0583 or H01M10/0587) and ((positive or cathode)s (negative or anode)s (coating or active+)), transferred to database CNTXT					
CNTXT, (transferred database result) and (((lithium 2d precipitation) or lithium dendrite)s (negative electrode or anode)s (single-sided or one-sided or one side or one surface))					
CN111525194A: 39 CNABS, (/ic/cpc H01M10/0583 or H01M10/0587) and ((positive or cathode)s (negative or anode)s (coating or active+)), transferred to database CNTXT					
CNTXT, (transferred database result) and ((negative electrode or anode)s (coating or active+)s (current density)) and (pd <=20201110)					
CN101819880A: 75 CNTXT, (((lithium 2d precipitation)or lithium dendrite)s (negative electrode or anode)s (single-sided or one-sided or one side or one surface)) and (/ic H01M10) and (pd <=20201110)					
CN108448160A: 75 CNTXT, (((lithium 2d precipitation) or lithium dendrite)s (negative electrode or anode)s (single-sided or one-sided or one side or one surface)) and (/ic H01M10) and (pd <=20201110)					
CN110556589A: 80 VEN, ((/ic/cpc H01M10/0583 or H01M10/0587) and ((negative or cathod) s (positive or anode) s (coat+ or activ+ or plat+)) and (pd <=20201110)) and (lithium 3d (dendrite or precipitat+))					
JP2018081840A: 80 VEN, ((/ic/cpc H01M10/0583 or H01M10/0587) and ((negative or cathod) s (positive or anode) s (coat+ or activ+ or plat+)) and (pd <=20201110)) and (lithium 3d (dendrite or precipitat+))					
US10637027B2: 69 USTXT, WOTXT, EPTXT, ((/ic H01M10/0583 or H01M10/0587) and ((negative or cathod) s (positive or anode) s (coat+ or activ+ or plat+)) and ((negative or cathod) s ((single or one) 4d side)) and (pd <=20201110)) and (lithium 3d (dendrite or precipitat+))					
Wanfang Academic Journals: 0, Subject: (battery or cell or jelly roll) and Subject: (winding) and Subject: (electrode sheet) and Subject: (coating or active) and Full text: (lithium precipitation)					
Web of Science: ts=(batter* or core?) coat* or plat* or active*) positive or anode or negative or cathod) lithium (dendrite or precipitat*)					
Relevant patent literature					
Type	Country and code [11] document number given	Code [43] or [45] Date given	IPC categorization No.	Relevant paragraph and/or figure number	Claims involved
A	CN209691836U	20191126	H01M2/26	Full text	1-10
A	CN109671987A	20190423	H01M10/0587	Full text	1-10
A	CN111525194A	20200811	H01M10/0587	Full text	1-10
A	CN101819880A	20100901	H01G9/00	Full text	1-10
A	CN108448160A	20180824	H01M10/052	Full text	1-10
A	CN110556589A	20191210	H01M10/0587	Full text	1-10
A	JP2018081840A	20180524	H01M10/0587	Full text	1-10
A	US10637027B2	20200428	H01M2/16	Full text	1-10



Relevant non-patent literature					
Type	Book title (including edition number and volume number)	Date of Publication	Author's name and publisher's name	Relevant page numbers	Claims involved
Type	Journal or abstract title (Including volume number and issue number)	Date of issue	Author's name and article title	Relevant page numbers	Claims involved

Instructions for completing the form:

1. The IPC classification numbers of the fields actually searched by the examiner shall be filled in at the classification positions where the group and/or subgroup are located.
2. The names of journals or other periodical publications may use abbreviated names that conform to generally accepted international practice.
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X: A document affecting novelty or inventive step;
Y: A document affecting inventive step when combined with another Y-category document in this report;
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R: A patent or patent application document for the same invention-creation submitted to the Patent Office by any entity or individual on the filing date.
P: Intermediate document, a document whose publication date falls between the filing date of the application and the claimed priority date;
E: Conflicting application.

Examiner: Jiaojiao Li
July 20, 2021

Examining department: Electrical Invention Examination
Department of the Sichuan Center for Patent Examination
Cooperation



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To whom it may concern:

I, Jihua Shang, am Project Manager in this company.

We have translated the following file from the Chinese language to the English language.

- CosMX 2026 Semi-Annual Report (Pages 1 – 3 — Front matter、Pages 33 – 34 — Section 4: Corporate Governance、pages 48 – 49 — Note 35 & Note 36、Pages 63 – 70 — Section 6: Changes in Shares and Shareholder Information、Pages 197 – 201 — Note XIV of the Financial Report (Section 8))
- CosMX 2025 Annual Report (Pages 1 – 3 — Front matter、Pages 46 – 53 — Item V, Information on Directors and Senior Executives: (I) and (II))
- Ex. 2002 (Chinese) - Patent wars erupt over small batteries
- First search record of 2020112496431 (CN112331930A)

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Jihua Shang

Date: 26/09/2026

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检索报告

申请号: 2020112496431	申请日: 20201110	首次检索
申请人: 珠海冠宇电池股份有限公司	最早的优先权日:	
权利要求项数: 10	说明书段数: 90+5	
审查员确定的 IPC 分类号: H01M10/0587,H01M10/0525,H01M4/13,H01M50/536		
检索记录信息: CN209691836U: 20 CNABS, (((/in or 余正发, 彭冲, 胡贤飞, 宋博, 李俊义, 徐延铭) and (/pa 珠海冠宇+)) and (/ic/cpc H01M10/0583 or H01M10/0587)) and (pd <=20201110)		
CN109671987A: 22 CNABS, (/ic/cpc H01M10/0583 or H01M10/0587) and ((正极 or 阴极) s (负极 or 阳极) s (涂层 or 活性+)), 转库至 CNTXT		
CNTXT, (转库结果) and (((析 2d 锂) or 锂枝晶) s (负极 or 阳极) s (单面 or 单侧 or 一侧 or 一面))		
CN111525194A: 39 CNABS, (/ic/cpc H01M10/0583 or H01M10/0587) and ((正极 or 阴极) s (负极 or 阳极) s (涂层 or 活性+)), 转库至 CNTXT		
CNTXT, (转库结果) and ((负极 or 阳极) s (涂层 or 活性+) s (电流密度)) and (pd <=20201110)		
CN101819880A: 75 CNTXT, (((析 2d 锂) or 锂枝晶) s (负极 or 阳极) s (单面 or 单侧 or 一侧 or 一面)) and (/ic H01M10) and (pd <=20201110)		
CN108448160A: 75 CNTXT, (((析 2d 锂) or 锂枝晶) s (负极 or 阳极) s (单面 or 单侧 or 一侧 or 一面)) and (/ic H01M10) and (pd <=20201110)		
CN110556589A: 80 VEN, (/ic/cpc H01M10/0583 or H01M10/0587) and ((negative or cathod) s (positive or anode) s (coat+ or activ+ or plat+)) and (pd <=20201110)) and (lithium 3d (dendrite or precipitat+))		
JP2018081840A: 80 VEN, (/ic/cpc H01M10/0583 or H01M10/0587) and ((negative or cathod) s (positive or anode) s (coat+ or activ+ or plat+)) and (pd <=20201110)) and (lithium 3d (dendrite or precipitat+))		

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US10637027B2: 69 USTXT,WOTXT,EPTXT, ((/ic H01M10/0583 or H01M10/0587) and ((negative or cathod) s (positive or anode) s (coat+ or activ+ or plat+)) and ((negative or cathod) s ((single or one) 4d side)) and (pd (<=20201110)) and (lithium 3d (dendrite or precipitat+))

万方学士期刊: 0, 主题:(电池 or 电芯 or 卷芯) and 主题:(卷绕) and 主题:(极片) and 主题:(涂层 or 活性) and 全部:(析锂)

Web of Science: ts=(batter* or core?) coat* or plat* or active*) positive or anode or negative or cathod) lithium (dendrite or precipitat*)

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类型	国别以及代码[11] 给出的文献号	代码[43]或[45] 给出的日期	IPC 分类号	相关的段落 和 / 或图号	涉及的权 利要求
A	CN209691836U	20191126	H01M2/26	全文	1-10
A	CN109671987A	20190423	H01M10/0587	全文	1-10
A	CN111525194A	20200811	H01M10/0587	全文	1-10
A	CN101819880A	20100901	H01G9/00	全文	1-10
A	CN108448160A	20180824	H01M10/052	全文	1-10
A	CN110556589A	20191210	H01M10/0587	全文	1-10
A	JP2018081840A	20180524	H01M10/0587	全文	1-10
A	US10637027B2	20200428	H01M2/16	全文	1-10



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审 查 员: 李皎皎
2021 年 07 月 20 日

审查部门: 专利审查协作四川中心电学发明审查部

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