

## PATENT ASSIGNMENT COVER SHEET

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<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
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KAI LI	03/26/2018
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<b>State/Country:</b>	CAYMAN ISLANDS
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16895502
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发明人专利授权书  
(ASSIGNMENT OF PATENT APPLICATION BY INVENTOR)

我, 下述签署发明人(以下简称“发明人”)发明下述专利申请的特定新型和实用改进方案:  
(Whereas I, an undersigned inventor (hereinafter “INVENTOR”), have invented certain new and useful improvements as set forth in the following patent application:)

标题: 一种文本检索方法和装置

(TITLE:) METHOD AND APPARATUS FOR SECURING COMMUNICATIONS USING  
MULTIPLE ENCRYPTION KEYS

☐ 对于我执行这里同一日期的美国专利申请.

(for which I have executed a U.S. patent application on even date herewith.)

☒ 具有美国专利申请号15/570,817, 申请日October 31, 2017.

(which bears U.S. application serial No. 15/570,817, filed October 31, 2017.)

☐ 对于我在\_\_国家\_\_日期执行的专利申请.

(for which I have executed a patent application in the country of \_\_\_\_\_ on \_\_\_\_\_.)

☐ 我执行这里同一日期的美国临时专利申请.

(which I have executed a U.S. provisional application on even date herewith.)

☐ 具有美国专利申请号\_\_, 申请日\_\_的美国临时专利申请.

(which is a U.S. provisional application which bears U.S. application serial No. \_\_\_\_\_, filed \_\_\_\_\_.)

为了有益和有利考虑, 在此承认接受和条件具备, 我, 下述签署发明人特此承认:

(For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I, an undersigned inventor, hereby:)

(a) 出售, 授予和转让给阿里巴巴控股有限公司, 位于大开曼, 开曼群岛 One Capital Place 四楼, 邮箱847, (以下简称“受让人”), (1) 所有权利, 所有权和利益, 任何和一切财政收入和财政收入权利, 对于任何目的世界上任何地点的有关商业化的 (A) 任何和一切上述专利申请的发明, (B) 上述专利申请, (C) 任何由此授予的专利, (D) 任何可以申明(或基于申明)上述专利申请优先权的专利申请和专利(包括但不限于连续案, 分割案, 部分连续案, 替代, 重授, 重审或延期, 以及所有在现有和未来国际惯例, 协定和条例下的优先权利和相应专利申请), 以及; (2) 起诉对于专利实施日之前的第三方专利侵权行为 (包括但不限于损坏) 的权利.

(Sell, assign and transfer to Alibaba Group Holding Limited, having a place of business at Fourth Floor, One Capital Place, P.O. Box 847, Grand Cayman, Cayman Islands (hereinafter

"ASSIGNEE"), (1) the entire right, title and interest, and any and all revenues and rights to revenue, for any purpose, associated with commercialization, everywhere in the world, to (A) any and all inventions described in said Application, (B) said Application, (C) any patent that may be granted thereof, (D) any patent applications or patents which may claim priority of (or serve as the basis for a priority claim by) said Application (including but not limited to continuations, divisions, continuations-in-part, substitutes, reissues, reexaminations or extensions thereof, together with all priority rights and counterpart applications under any existing or future international patent conventions, agreements or treaties), and; (2) the right to sue third parties for patent infringement (including but not limited to damages) accruing based on activities occurring prior to the execution date hereof.)

(b) 授权并要求专利局局长授予专利给受让人任何和一切由上述专利申请或分割案, 连续案, 替代, 续签, 重审或重授的美国专利.

(Authorize and request the Commissioner of Patents to issue any and all United States Patents resulting from said application or any division, continuation, substitute, renewal, re-examination or reissue thereof to the ASSIGNEE.)

(c) 同意行使所有文书和文档并由受让人承担所有费用, 并且和受让人沟通我们知道的任何改进方案, 并在任何法律诉讼中作证, 签署任何法律文书, 行使任何分割案, 连续案和重授专利申请, 做任何法定宣誓和行使任何一般的关于此专利申请审查的必须行为, 以及任何基于此的衍生专利申请, 外国专利申请, 和/或基于此专利申请的专利实施.

(Agree to execute all papers and documents and, entirely at the ASSIGNEE's expense, and to communicate to the ASSIGNEE any facts known to us respecting the improvements, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally perform any acts which are reasonably necessary in connection with the prosecution of said application, as well as any derivative applications thereof, foreign applications based thereon, and/or the enforcement of patents resulting from such applications.)

(d) 授权和协定没有其他任何以发明人名义的已经或将要实施的关于上述受让, 许可, 合同, 理解, 利益或其他授予第三方的行为.

(Warrant and covenant that no other assignment, license, contract, understanding, interest or other grant to any third party with respect to any of the foregoing has been made, or shall in the future be made, by or on behalf of INVENTOR.)

(e) 协定不挑战任何授予以下受让人的专利申请和专利的有效性和实施性.

(Covenant not to challenge the validity or enforceability of any of the patent applications or patents assigned to ASSIGNEE hereunder.)

(f) 同意受让人, 其继任者, 其受让者和其他法律代表享受此受让的期限, 协议和条款, 并且和发明人, 发明人继承人, 法律代表和其受让者捆绑.

(Agree that the terms, covenants and conditions of this assignment shall inure to the benefit of the ASSIGNEE, its successors, assigns and other legal representatives, and shall be binding upon the INVENTOR, as well as the INVENTOR's heirs, legal representatives and assigns.)

(g) 授权并要求我的律师 / 代理于上输入专利申请号以协助备案此授让或其它必要信息以完善此授让.

(Authorize and request my attorney/agent to insert above the application number in order to assist with recordal of this assignment or any other information necessary to perfect this assignment.)

特此作证, 我 Jia ZHANG 在下述日期执行此文书。  
(IN TESTIMONY WHEREOF, I Jia ZHANG have executed this document on the date indicated below.)

张甲  
发明人签名(Signature of Inventor)

03/26/2018  
授权日期(Date)

杭州, 中国 (Hangzhou, China)  
发明人住所所在城市, 省份 (Inventor's City, State of residence)

特此作证, 我 Kai LI 在下述日期执行此文书.

(IN TESTIMONY WHEREOF, I Kai LI have executed this document on the date indicated below.)



发明人签名(Signature of Inventor)

07/26/2018

授权日期(Date)

杭州, 中国 (Hangzhou, China)

发明人住所所在城市, 省份 (Inventor's City, State of residence)