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Transaction Secure, LLC*

**UNITED STATES DISTRICT COURT  
NORTHERN DISTRICT OF CALIFORNIA  
SAN JOSE DIVISION**

TRANSACTION SECURE, LLC, a  
foreign limited liability company,

Plaintiff,

vs.

GITHUB, INC., a foreign  
corporation,

Defendant.

Case No.: 5:19-cv-04050-EJD

**AMENDED COMPLAINT FOR  
PATENT INFRINGEMENT**

**DEMAND FOR INJUNCTIVE  
RELIEF**

**DEMAND FOR JURY TRIAL**

Plaintiff, TRANSACTION SECURE, LLC, sues Defendant, GITHUB,  
INC., and alleges as follows:

**NATURE OF THE ACTION**

1. This is an action for infringement of United States Patent No.  
8,738,921 under the Patent Act, 35 U.S.C. § 271, *et seq.*, based on Defendant's  
unauthorized commercial manufacture, use, importation, offer for sale, and sale of  
infringing products and services in the United States.

**PARTIES**

AMENDED COMPLAINT FOR PATENT INFRINGEMENT  
AND DEMAND FOR JURY TRIAL

1           2.     Plaintiff, TRANSACTION SECURE, LLC, is a foreign limited  
2 liability company.

3           3.     Defendant, GITHUB, INC., is a foreign corporation, organized under  
4 the laws of the State of Delaware, with its headquarters in San Francisco,  
5 California. Defendant uses, sells, and/or offers to sell products and/or services in  
6 interstate commerce that infringe the ‘921 Patent.

7                           **SUBJECT MATTER JURISDICTION**

8           4.     This court has original jurisdiction over the subject matter of this  
9 action, pursuant to 28 U.S.C. §§ 1331 and 1338(a), because this action involves a  
10 federal question relating to patents.

11                           **PERSONAL JURISDICTION**

12           5.     The court has general *in personam* jurisdiction over Defendant  
13 because Defendant resides and is found in the State of California.

14                           **VENUE**

15           6.     Venue is proper in this court, pursuant to 28 U.S.C. § 1400(b),  
16 because Defendant has a regular and established place of business in this district  
17 and resides in this district.

18                           **INTRADISTRICT ASSIGNMENT**

19           7.     Pursuant to Local Civil Rule 3-2(d), this action is properly assigned to  
20 the San Jose Division because the Court transferred this action to this Division  
21 from the San Francisco Division.

22                           **COUNT I**

23                           **PATENT INFRINGEMENT**

24           8.     Plaintiff repeats and re-alleges paragraphs 2 through 7 by reference, as  
25 if fully set forth herein.

26           9.     On May 27, 2014, the United States Patent & Trademark Office  
27 (USPTO) duly and legally issued the ‘921 Patent, entitled “System and Method for  
28

1 Authenticating a Person's Identity Using a Trusted Entity." A true and authentic  
2 copy of the '921 Patent is attached hereto as **Exhibit "A"** and incorporated herein  
3 by reference.

4 10. The '921 Patent teaches both a system and method for protecting  
5 sensitive information from identity theft and claims an advancement over two-  
6 factor authentication, which is now the predominate form of digital authentication  
7 of sensitive information.

8 *State of the Art*

9 11. The identity theft problem exists largely because a person's name,  
10 SSN, and birthday are frequently used and given to others to verify the person's  
11 identity. Individuals use this information to get employment, apply for a credit  
12 card, obtain a mortgage, buy a mobile phone, get healthcare, and perform  
13 numerous other transactions. A person's SSN and birthday are usually stored  
14 electronically by businesses in databases or on physical paper documents which  
15 can be viewed by many individuals within a business.

16 12. Once a person supplies his/her SSN and birthday, they lose control of  
17 how that information will be used and who will view that information.

18 13. At times, business computer systems and databases get hacked into  
19 allowing the hacker access to the person's personal identity information. At other  
20 times, the SSN and birthday are transmitted to businesses and others electronically  
21 via the Internet.

22 14. The Internet is an unsecured network, so information not properly  
23 encrypted can be viewed by others on the Internet. There are various ways an  
24 impersonator or identity thief can obtain a person's SSN or birthday. The thief can  
25 obtain this information by looking at business records, viewing unencrypted  
26 messages with this information, or other types of fraud.

27 15. Once a thief has someone's SSN and birthday, the thief can use that  
28

1 information anytime during the lifetime of the person because of the permanence  
 2 of SSN and birthday and its association with the person. The SSN and birthday  
 3 have been reliable indicators of a person's existence but their widespread use by  
 4 both the person and identity theft impersonators has made them of little use in  
 5 authenticating the identity of person using the information.

### 6 *The Patent-in-Suit*

7 16. Plaintiff is the assignee of the entire right, title, and interest in the  
 8 '921 Patent, including the right to assert causes of action arising under the '921  
 9 Patent.

10 17. The system and method of the '921 Patent increase the efficiency of  
 11 components that use software because of the benefits claimed by the '921 Patent,  
 12 namely flexibility and a higher degree of certainty as to authenticating that a  
 13 person is who he/she claims to be. The prior art is described as uncertain because  
 14 under the prior art, a user's assurance of authentication is limited to just  
 15 confirming that certain devices are what they claim to be, not that certain persons  
 16 are who they claim to be.

17 18. The '921 Patent provides a solution to this problem by both reducing  
 18 the number of times that personal identity information is exposed on the Internet  
 19 and generating unique alpha-numeric codes that are encrypted with specific  
 20 personal identity information that must match authentication requests.

21 19. Through Claim 1, the '921 Patent claims:

22 A method for authenticating a person's identity to a  
 23 transactional entity using a trusted entity with a secure  
 24 repository of a person's personal identity information,  
 25 comprising: receiving personal identity information at a trusted  
 26 entity computer system, the personal identity information being  
 27 confidentially stored by the trusted entity computer system; in  
 28 the secure repository, storing a user identifier and a password  
 that are associated with, but do not contain, the personal  
 identity information; at the trusted entity computer system,  
 receiving a request from the person for a unique code, the  
 request including the user identifier and the password, the  
 person's identity having been previously authenticated by the

1 trusted entity computer system; providing the unique code to  
2 the person, the unique code comprising a person identifier and a  
3 key, wherein the unique code is thereafter transmitted to a  
4 transactional entity to identify the person without providing the  
personal identity information to the transactional entity; and the  
trusted entity computer system confirming the unique code to  
the transactional entity to verify the person's identity.

5 20. Through Claim 24, the '921 Patent claims:

6 A system for authenticating a person's identity to a  
7 transactional entity using a trusted entity, comprising: a trusted  
8 entity which receives personal identity information from a  
9 person, the personal identity information being confidentially  
10 stored by the trusted entity; a user identifier associated with but  
11 not containing any of the personal identity information; a  
12 password associated with but not containing any of the personal  
13 identity information; a client module with a person input device  
14 for a person to enter the user identifier and the password, a  
15 person processing unit connected to the person input device to  
16 prompt the person for the user identifier and the password, and  
17 a person display unit connected to the person processing unit to  
18 display a the key associated with a person identifier to form a  
19 unique code to the person, the person's identity having been  
20 previously authenticated by the trusted entity; a transactional  
processing module with an transactional input device for the  
transactional entity to enter the key, a transactional processing  
unit connected to the transactional input device to prompt the  
transactional entity for the key, and a transactional display unit  
connected to the transactional processing unit to display a  
message to the transactional entity authenticating the person's  
identity and to display a photograph of the person, whereby the  
photograph is a secondary verification to the unique code; and a  
trusted entity server with a trusted entity processing unit to  
process requests from the client module and the transactional  
processing module using a network, and a database accessible  
to the trusted entity processing unit to store the user identifier,  
the password, the unique code, and the person's personal  
identity information, including the photograph.

21 21. Claim 1 represents an improvement in the art because a trusted entity  
22 independently authenticates a person's identity based on a series of information  
23 provided by a person to the trusted entity. This, in turn, eliminates the need for a  
24 transactional entity to independently authenticate a person's identity, which  
25 significantly reduces costs to the transactional entity. In fact, under the method  
26 claimed, a person does not provide his or her personal identity information to a  
27 transactional entity. Because the method gives the transactional entity greater  
28

1 confidence in authentication without the need to actually expose personal identity  
2 information, the identity theft problem is reduced.

3       22. The ‘921 Patent further represents an improvement in computer  
4 technology because under the method claimed, authentication is achieved by a  
5 trusted entity and a transactional entity matching encrypted alpha-numeric codes  
6 that contain undecipherable information to the human eye, whereas in the prior art,  
7 authentication was achieved by only a person and a transactional entity (or many  
8 different transactional entities). The ‘921 Patent reduces the identity theft problem  
9 by relying solely on authentication between the trusted entity and transactional  
10 entity, both of whom are already in the business of handling and adequately  
11 protecting confidential information, unlike a person.

12       23. Overall, the claims of the ‘921 Patent do not merely gather, analyze,  
13 and output data, nor does the ‘921 Patent merely add an algorithm to old data to  
14 generate new data. Instead, the ‘921 Patent teaches a system and method that is not  
15 concerned with manipulation of data, but rather, an improvement in the state of the  
16 art no matter what the underlying data describes. Under the method claimed, the  
17 ‘921 Patent transforms personal identity information (SSN, birthdate, etc.) that is  
18 easily decipherable by providing a unique alpha-numeric code containing that  
19 same information that is undecipherable to the human eye, which mitigates the  
20 possibility of identity theft.

21       24. Thus, the risk of fraud is much lower under the ‘921 Patent because  
22 the unique alpha-numeric code has no value to an identity thief and a trusted entity  
23 will only authenticate such code if it is received by a transactional entity.

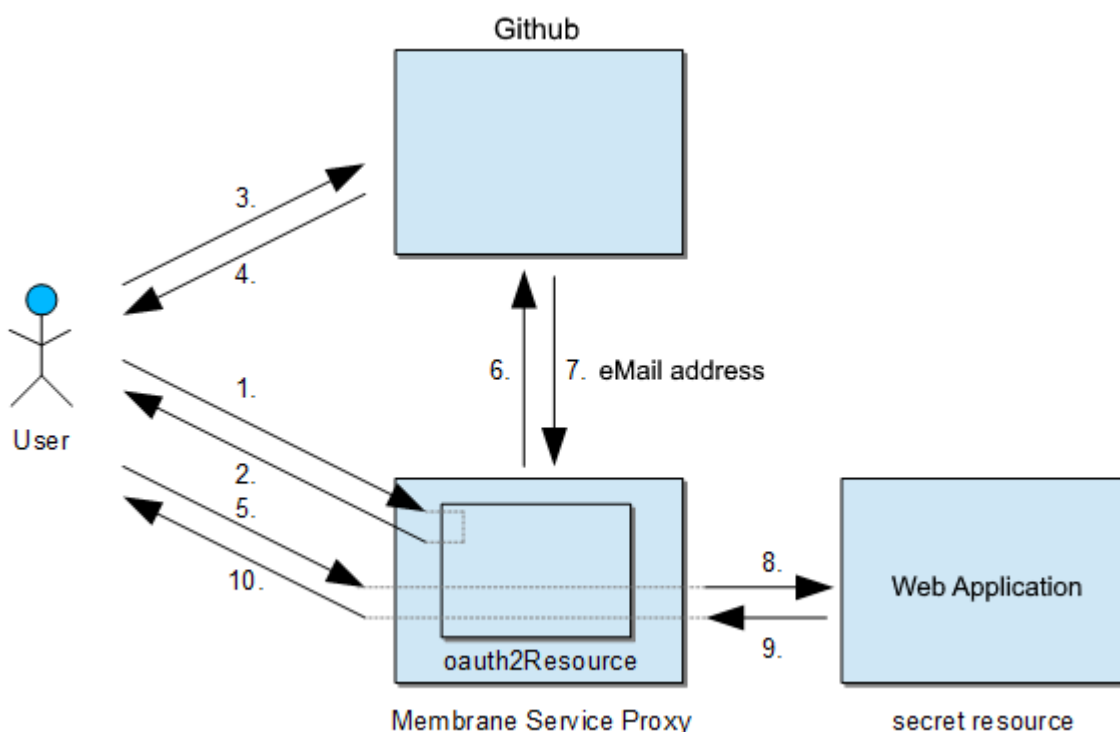
24       25. Identity theft is a problem uniquely suited to the Internet because it  
25 rarely requires “real world” evidence to confirm a person’s identity, and the pure  
26 exchange of digital information allows identity thieves to capitalize on stealing  
27 identities. Thus, technological advancements in digital information has made it the  
28

predominant form of communication, which has created a problem unique to digital information. The method claimed by the '921 Patent addresses this problem through a technological advancement over two-factor authentication by requiring a person to verify their personal identity information to a trusted entity, who then guards against identity theft by generating the unique alpha-numeric codes and then matching these codes only against transactional entities. The end result of this method is to ensure that persons are authenticated, not simply that devices are authenticated, which was the state of the art in two factor authentication.

26. Defendant infringes at least Claim 1 of the '921 Patent through an authentication method it uses, along with a system for authenticating a person's identity, which such method is disclosed at: <https://membrane-soa.org/service-proxy-doc/4.4/oauth2-github.htm>.

27. Defendant's website operates as the Accused Product.

28. The Accused Product is a trusted entity, as claimed by Plaintiff, to authenticate account holders when such holders want to access a service from a resource server (i.e., a transactional entity), by using non-personal information for securing personal data:





To use Basic Authentication with the GitHub API, simply send the username and password associated with the account.

Before directing the resource owner back to the client with the authorization code, the authorization server authenticates the resource owner and obtains authorization. Because the resource owner only authenticates with the authorization server, the resource owner's credentials are never shared with the client.

29. The Accused Product receives personal information from users at a trusted entity computer system, such as their name, age, birthdate, email address, phone number etc. when users create an account. Defendant then confidentially stores this data for promoting safety and security, through a process explained at <https://enterprise.github.com/privacy> and <https://help.github.com/articles/github-privacy-statement/>:

When you register for GitHub we ask for information such as your name, email address, billing address, credit card information.

GitHub uses collected information for the following general purposes: products and services provision, billing, identification and authentication, services improvement, contact, and research.

30. Defendant, in a secure repository, provides users with authorization login details (i.e., user identifier and password) that they are associated with, but the login details do not contain the personal details:

Click on *Register application*

Immediately after the creation of the application you client id and client secret are displayed.

Client ID

30a8558b22a110a03f1d

Client Secret

3ebbb4ecf2f8db89a4200e2bb94c8f8263d011b7

TRINGEMENT

AND DEMAND FOR JURY TRIAL



Before directing the resource owner back to the client with the authorization code, the authorization server authenticates the resource owner and obtains authorization. Because the resource owner only authenticates with the authorization server, the resource owner's credentials are never shared with the client.

31. The user then requests Defendant for resource access to a trusted entity computer system. The request includes the user identifier and the password. Defendant provides an authorization code to obtain an access token and ID token for accessing the services.

### 1. Request a user's GitHub identity

```
GET https://github.com/login/oauth/authorize
```

When your GitHub App specifies a `login` parameter, it prompts users with a specific account they can use for signing in and authorizing your app.

### Via Username and Password

To use Basic Authentication with the GitHub API, simply send the username and password associated with the account.

- The user calls the client.
- The client creates an authorization request and redirects the user with that request to the authorization server.
- Now something similar to the traditional authorization process happens: The user is presented with a login screen and needs to login.
- The authorization happens only one time or when the authorization expires.

32. Defendant provides a unique authorization code to the user in response of the request of the user, just as in the '921 Patent, which includes a user identified and access key, wherein the unique code is thereafter transmitted to a transactional entity to authenticate the user's identity without giving personal information to the transactional entity.

If the user accepts your request, GitHub redirects back to your site with a temporary `code` in a code parameter as well as the state you provided in the previous step in a `state` parameter. If the states

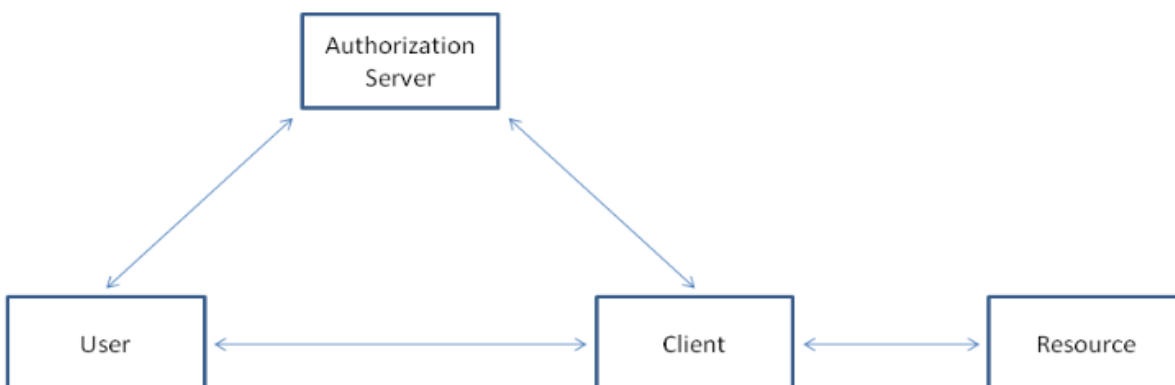
- The user is now authorized with the authorization provider and the authorization server generates an access code.
- After authorization the user is redirected to the client.
- The access code is given to the client and the client exchanges it for an access token at the authorization server.

33. The unique authorization code is required to obtain an access token. This access token then used by the user for accessing the services.

34. In the Accused Product, the user identity is verified by the resource server by using the authorization code to allow the user to access the code:

Exchange this code for an access token:

- The access code is given to the client and the client exchanges it for an access token at the authorization server.
- The authorization of the user is expressed as this token. It is bound to and can be used to verify the users authorization.
- Validation of the access token is typically done by the resource itself or sending another request to the authorization server.



35. Upon information and belief, Defendant has known of the existence of the ‘921 Patent, and its acts of infringement have been willful and/or in disregard for the ‘921 Patent, without any reasonable basis for believing that it had a right to engage in the infringing conduct.

36. Defendant’s acts of infringement of the ‘921 Patent have caused and will continue to cause Plaintiff damages for which Plaintiff is entitled to compensation pursuant to 35 U.S.C. § 284.

37. Defendant's acts of infringement of the '921 Patent have caused and will continue to cause Plaintiff immediate and irreparable harm unless such infringing activities are also enjoined by this court pursuant to 35 U.S.C. § 283. Plaintiff has no adequate remedy at law.

38. Upon information and belief, the '921 Patent, at all times material, was and is in compliance with 35 U.S.C. § 287.

**WHEREFORE**, Plaintiff, TRANSACTION SECURE, LLC, demands judgment against Defendant, GITHUB, INC., and respectfully seeks the entry of an order (i) adjudging that Defendant has infringed the '921 Patent, in violation of 35 U.S.C. § 271; (ii) granting an injunction enjoining Defendant, its employees, agents, officers, directors, attorneys, successors, affiliates, subsidiaries and assigns, and all of those in active concert and participation with any of the foregoing persons or entities from infringing the '921 Patent; (iii) ordering Defendant to account and pay damages adequate to compensate Plaintiff for Defendant's infringement of the '921 Patent, with pre-judgment and post-judgment interest and costs, pursuant to 35 U.S.C. § 284; (iv) ordering that the damages award be increased up to three times the actual amount assessed, pursuant to 35 U.S.C. § 284; (v) declaring this case exceptional and awarding Plaintiff its reasonable attorneys' fees, pursuant to 35 U.S.C. § 285; and, (vi) awarding such other and further relief as this court deems just and proper.

### **DEMAND FOR JURY TRIAL**

Plaintiff, TRANSACTION SECURE, LLC, hereby demands a trial by jury of all issues so triable pursuant Fed. R. Civ. P. 38.

/s/ Coleman Watson  
Coleman W. Watson, Esq.

**DATED** on October 7, 2019

AMENDED COMPLAINT FOR PATENT INFRINGEMENT  
AND DEMAND FOR JURY TRIAL

Respectfully submitted,

WATSON LLP

*/s/ Coleman Watson*

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