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## Invalidity Contentions: U.S. Patent No. 8,843,125

## Fintiv, Inc. v. Apple Inc., Case No. 1:19-CV-1238-ADA (W.D. Tex.)

#### Synchronizing the Mobile Wallet Application with the TSM

**<u>CLAIM LIMITATIONS</u>:** "synchronizing the mobile wallet application with the TSM system" ('125 patent claim 11) and "mobile wallet application with the TSM system comprises: checking for a change made to a configuration of the mobile transmitting the change to the TSM system" ('125 patent claim 13).

ASSERTED CLAIMS: These limitations are present in the following asserted claims: '125 patent claims 11 (and its depe

**DISCLOSURE/MOTIVATION TO COMBINE:** Under Fintiv's interpretation of these claim limitations, synchronizing a mot TSM was well-known at the time of the alleged inventions of the asserted claims.<sup>1</sup>

Synchronization technologies and techniques were quite mature by the time of the alleged invention and would have been as evidenced by the references herein. The '125 patent specification discusses synchronization only as a general matter, the mobile wallet application 24 connects to the TSM system 120, which may house WMS 110, for synchronization in step 3:30-33. The same is true of the synchronization resulting from a change made to the mobile wallet application recited if of Figure 5 discusses synchronization initiated from the server (*id.* at 11:5-53)—the specification simply states that synce a change made on the mobile device: "while mobile wallet application 24 is still active, any modifications that are made application 24 itself will be updated in the WMS 110 in step 505 as synchronization is a continuous one during usage." Asserted Patent also states that synchronization may be updating a "change[d] user preference" or "expiration date." *Id.* detail is provided with respect to how synchronization occurs and no suggestion is made that synchronization was new or synchronization of mobile wallet software or data would be any different that synchronization of any other type of inform the art.

Fintiv's Preliminary Infringement Contentions do not point to any evidence of synchronization, whether generally or wi device-initiated synchronization of claim 13. Indeed, for the synchronizing element of both claim 11 and claim 13, Fint

<sup>&</sup>lt;sup>1</sup> To the extent that these Invalidity Contentions rely on or otherwise embody particular constructions of terms or phrases in the Asserted Claims ordered by the Court in this action, Defendant is not proposing any such constructions as proper constructions of those terms or phrases and rese claim construction positions in this and other proceedings. Various positions put forth in this document are predicated on Plaintiff's incorrect ar claims as evidenced by its Preliminary Infringement Contentions, dated May 20, 2019 and proposed Amended Infringement Conventions, dated the "Infringement Contentions" or "Preliminary Infringement Contentions"). Those positions are not intended to and do not necessarily reflect I true and proper scope of Plaintiff's claims, and Defendant reserves the right to adopt claim construction positions that differ from or even confli in this document.

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Contentions cite only to the same evidence that it also cites with respect to activating the mobile wallet application and or Preliminary Infringement Contentions Ex. A at pp. 2-5 (activating the mobile wallet application), 5-9 (same citations for (same citations for synchronization element of claim 11), 20-32 (same citations for all elements of claim 13). Fintiv's ex-"synchronizing ..." limitation in claim 11 is pasted below. See Preliminary Infringement Contentions, Ex. A at 9-13.

Infringing Functionality/Structure	Infringing Functionality/Structure
Apple Pay components	When you add credit, debit, prepaid, or transit cards
Secure Element: The Secure Element is an industry-standard, certified chip running the Java Card platform, which is compliant with financial industry requirements for electronic payments.	When you add a credit, debit, prepaid, or transit card (where available) to Apple Pay, Information that you enter on your device is encrypted and sent to Apple servers. If use the camera to enter the card information, the information is never saved on your
NFC controller: The NFC controller handles Near Field Communication	device or photo library.
protocols and routes communication between the application processor and the Secure Element, and between the Secure Element and the point-of-sale terminal.	Apple decrypts the data, determines your card's payment network, and re-encrypts data with a key that only your payment network (or any providers authorized by your issuer for provisioning and token services) can unlock.
Wallet: Wallet is used to add and manage credit, debit, rewards, and store cards and to make payments with Apple Pay. Users can view their cards and additional information about their card issuer, their card issuer's privacy policy, recent transactions, and more in Wallet. Users can also add cards to Apple Pay in Setup Assistant and Settings. Secure Enclave: On iPhone, iPad, and Apple Watch, the Secure Enclave	Information that you provide about your card, whether certain device settings are er and device use patterns—such as the percent of time the device is in motion and th approximate number of calls you make per week—may be sent to Apple to determin eligibility to enable Apple Pay. Information may also be provided by Apple to your ca issuer, payment network, or any providers authorized by your card issuer to enable Apple Pay, to determine the eligibility of your card, to set up your card with Apple Pa
manages the authentication process and enables a payment transaction to proceed.	to prevent fraud.
On Apple Watch, the device must be unlocked, and the user must double-click the side button. The double-click is detected and passed to the Secure Element or Secure Enclave where available, directly without going through the application processor.	After your card is approved, your bank, your bank's authorized service provider, or y card issuer creates a device-specific Device Account Number, encrypts it, and send along with other data (such as the key used to generate dynamic security codes tha unique to each transaction) to Apple. The Device Account Number can't be decrypti Apple but is stored in the Secure Element—an industry-standard, certified chip desi
Apple Pay servers: The Apple Pay servers manage the setup and provisioning of credit and debit cards in Wallet and the Device Account Numbers stored in the Secure Element. They communicate both with the device and with the payment network servers. The Apple Pay servers are also responsible for re-encrypting payment credentials for payments within apps.	to store your payment information safely—on your device. Unlike with usual credit of card numbers, the card issuer can prevent its use on a magnetic stripe card, over the phone, or on websites. The Device Account Number in the Secure Element is isolate from IOS, watchOS, and macOS, is never stored on Apple servers, and is never back to iCloud.
iOS Security Guide, iOS 11.4, August 2018 at p. 40.	https://support.apple.com/en-us/HT203027 (last accessed on 2/

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#### Infringing Functionality/Structure Infringing Functionality/Structure Credit, debit, and prepaid card provisioning Add a card on your iPhone When a user adds a credit, debit, or prepaid card (including store cards) 1. Go to Wallet and tap 💿. to Apple Pay, Apple securely sends the card information, along with other Wallet information about user's account and device, to the card issuer or card issuer's 2. Follow the steps to add a new card. authorized service provider. Using this information, the card issuer will determine Watch the demo to see how it works. If Pay Cash whether to approve adding the card to Apple Pay. you're asked to add the card that you use with iTunes, cards on other devices, or Apple Pay uses three server-side calls to send and receive communication with cards that you've recently removed. the card issuer or network as part of the card provisioning process: Required choose them, then enter the card Fields, Check Card, and Link and Provision. The card issuer or network uses these calls to verify, approve, and add cards to Apple Pay. These client-server security codes. You might be required to download an app from your bank or card sessions are encrypted using TLS v1.2. issuer to add a card to Wallet. Full card numbers aren't stored on the device or on Apple servers. Instead, a - 22 = + 3. Tap Next. Your bank or card issuer will unique Device Account Number is created, encrypted, and then stored in the verify your information and decide if you Keep your boarding passes. Secure Element. This unique Device Account Number is encrypted in such a tickets, retail coupons, and re cards in one place. And show t can use your card with Apple Pay. If your way that Apple can't access it. The Device Account Number is unique and bank or issuer needs more information to your lock screen when you nee different from usual credit or debit card numbers; the card issuer can prevent verify your card, they'll ask you for it. Scan Code its use on a magnetic stripe card, over the phone, or on websites. The Device Find Apps for Wallet When you have the information, go back Account Number in the Secure Element is isolated from iOS and watchOS, is to Wallet and tap your card. never stored on Apple servers, and is never backed up to iCloud. 4. After your bank or issuer verifies your Cards for use with Apple Watch are provisioned for Apple Pay using the Apple card, tap Next. Then start using Apple Watch app on iPhone. Provisioning a card for Apple Watch requires that the watch Pay. be within Bluetooth communications range. Cards are specifically enrolled for use with Apple Watch and have their own Device Account Numbers, which are Get help adding your card to Wallet. stored within the Secure Element on the Apple Watch. iOS Security Guide, iOS 11.4, August 2018 at p. 41. https://support.apple.com/en-us/HT204506 (last accessed or

As reflected by references below, synchronizing a mobile wallet application with a TSM system was well-known and ur time of the alleged invention. A POSITA would have been motivated to implement this standard practice in a mobile w of keeping financial information current and accurate, backing up and restoring information in the event of a data loss or and allowing both users and service providers to update information. *See, e.g.*, Buhot EP 481 at ¶ 42 ("The instructions parameters may include personalisation information to update one or more parameters of a NFC application element in a user...In the case of a payment card application element, the instructions to update one or more parameters may include issuing bank to update the payment card expiration date, to change a security code, to set the credit card number, to set t performed by the backend system during a payment transaction, to set the maximum amount for a payment transaction e be triggered by the user..."); AllwaySync (describing "Free File Synchronization, Backup, Data Replication, PC Sync S Data Synchronization Software") <u>https://web.archive.org/web/20090318105616/http://allwaysync.com/</u>; Ilium Software Synchronization, you can make simultaneous changes to different cards on your Windows PC and Windows Mobile dev

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synchronized."). Accordingly, a POSITA would be motivated to combine standard file synchronization techniques in the mobile wallet with a TSM server.

To the extent Fintiv contends that any reference identified in Exhibit A does not disclose any portion of the above limital disclosed by the references herein. Moreover, the exemplary pincites to the prior art identified in the table below also exmissing portions would have been obvious to one of ordinary skill in the art. Further, a person of ordinary skill in the art to combine each reference identified in Exhibit A with any one or more of the following references for at least the reaso document of Apple's Initial Invalidity Contentions or as identified herein.

Reference	Disclosure
"Toward a Mobile Digital Wallet" by Alan Cole et al. published October 16, 2009 in IBM Research Report ("Cole").	<ul> <li>See, e.g.:</li> <li>"[N]ative wallet applications on mobile devices could operate against replicated snapshots of the u situation where network connectivity to the central wallet service is unavailable or unreliable. The replication strategies where localized copies are synchronized at opportune times It should also one wallet to another. Transfer capabilities should be in effect even if the two wallets are not mana Cole at pg. 4-5.</li> <li>"Sharing. In many usages, the contents of a wallet could be shared among users - for example, fam payment instruments or virtual cash. This can be realized in two ways: replication of the shared ite periodic synchronization, or via virtualized views on a base wallet. Operations carried out on a virt transferred to the base wallet. Virtualization storage schemes would induce the need for virtualized example, a conservative scheme that computes and enforces the maximum access requirements am wallets. Staged import and export. The combination of the above wallet storage, access control, and capabilities can be combined in useful ways that yield higher level policies about wallet usage." Id</li> <li>The teachings of this reference are explicitly directed to systems and methods wherein a central server admi and provides mobile wallet synchronization capabilities to mobile devices. A POSITA at the relevant time v combine these teachings with other systems and methods in which servers provide software for provisioning those identified in Exhibit A.</li> </ul>
"Ilium Software eWallet- Users Guide and Reference for Windows PCs and Windows Mobile-based Pocket PCs and	See, e.g.: • "Synchronization

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Smartphones, Version 4.0"	
Copyright 1997-2006, Ilium	eWallet 4.0 lets you choose between two ways of synchronizing your information: SyncPro <sup>™</sup> and
Software, Inc. ("Illium").	With SyncPro Synchronization, you can make simultaneous changes to different cards on your Wi device and both changes will be synchronized. If you're using File Synchronization, however, you wallet (your Visa card, for example) on your Windows PC and another (your calling card) on your take effect. Only whole files are synchronized.
	The Status Bar at the bottom of the Windows PC version of eWallet will show you the type of syn currently opened wallet file.
	Use the picks on eWallet's Synchronization menu to change synchronization settings for your oper for another wallet file, first open the file, then use the Wallet Synchronization Wizard.
	See Graphics and Sounds for information about the choosing the best options for using graphics ar synchronized." Ilium at pg. 20-21.
	"SyncPro Synchronization
	With SyncPro <sup>™</sup> Synchronization, you can make simultaneous changes to different cards on your Mobile-based Pocket PC or Smartphone, and all changes will be synchronized. SyncPro allows two one Windows Mobile device as well as an automatic wallet file copy to any other connected Windows Mobile device as well as an automatic wallet file copy to any other connected Windows Mobile device as well as an automatic wallet file copy to any other connected Windows Mobile device as well as an automatic wallet file copy to any other connected Windows Mobile device as well as an automatic wallet file copy to any other connected Windows Mobile device as well as an automatic wallet file copy to any other connected Windows Mobile device as well as an automatic wallet file copy to any other connected Windows Mobile device as well as an automatic wallet file copy to any other connected Windows Mobile device as well as an automatic wallet file copy to any other connected Windows Mobile device as well as an automatic wallet file copy to any other connected Windows Mobile device as well as an automatic wallet file copy to any other connected Windows Mobile device as well as an automatic wallet file copy to any other connected Windows Mobile device as well as an automatic wallet file copy to any other connected Windows Mobile device as well as an automatic wallet file copy to any other connected Windows Mobile device as well as an automatic wallet file copy to any other connected Windows Mobile device as well as an automatic wallet file copy to any other connected Windows Mobile device as well as an automatic wallet file copy to any other connected Windows Mobile device as well as an automatic wallet file copy to any other connected Windows Mobile device as well as an automatic wallet file copy to any other connected Windows Mobile device as well as an automatic wallet file copy to any other connected Windows Mobile device as well as an automatic wallet file copy to any other connected wallet file copy to any other connected wallet
	SyncPro is for use only with Windows Mobile-based Pocket PCs and Smartphones. If you have a HotSync to synchronize your eWallet information.
	We recommend you install the latest version of Microsoft ActiveSync for use with SyncPro.
	<ul> <li>Follow the steps below to set up your Windows PC and Pocket PC or Smartphone for synchroniza</li> <li>1. Make sure your Windows PC and your mobile device are connected using Microsoft Actives</li> <li>2. Start the Wallet Synchronization Wizard by selecting Synchronization Setup from eWallet's ready, press Next.</li> <li>3. Select your device in the wizard and press Next.</li> </ul>
	<ul><li>4. Pick the Synchronization Action you'd like and press Next.</li><li>5. Press Finish" <i>Id</i> at 21.</li></ul>
	The teachings of this reference are explicitly directed to systems and methods wherein a central server adminant provides mobile wallet synchronization capabilities to mobile devices. A POSITA at the relevant time was and provides mobile devices are explicitly directed to systems and provides mobile devices.

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