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I.Comparison of Petition at pp. 18-20 (Ground 1)With the Petition at pp. 39-41 (Ground 2)

Petition at pp. 18-20	Petition at pp. 39-41
(Chu '684 + Chu '366 argument)	(Chu '684 + Chen argument)
(Chu '684 + Chu '366 argument) There is significant overlap between Chu '684 and Chu '366. Both references teach telecommunications systems in which VoIP subscribers can place calls to a customer on the public PSTN. <i>Compare</i> Ex. 1006 , <i>Chu '684</i> at 8:65-9:1 ("At step 608 , after receiving all the dialed digits from the phone 101 , server 110 consults its dial plan to determine whether the call is local, to another on-net phone, or to a phone that is on the PSTN.") <i>with</i> Ex. 1007 , <i>Chu</i> '366 at 14:30-33 ("[T]here is shown a system for communications between a computing environment 202 including the application program according to the present system and a PSTN telephone 216. ").	There is significant overlap between Chu '684 and Chu '366Chen. Both references teach telecommunications systems in which VoIP subscribers can place calls to a customer on the public PSTN. Compare Ex. 10061003 , Chu '684 at 8:65-9:1 ("At step 608 , after receiving all the dialed digits from the phone 101 , server 110 consults its dial plan to determine whether the call is local, to another on- net phone, or to a phone that is on the PSTN.") with Ex. 1007 , Chu '366 at 14:30-33 ("[T]here is shown1004, Chen at Fig. 5 (Illustrating a system for communications between a computing environment 202 including the application program according to the present systemVoIP customer "SIP Phone," external number Translator, "PSTN Gateway, and a-PSTN telephone 216 ."Switch). Both references also teach a process in
Both references also teach a process in which dialed digits and caller attributes are used to determine where the call should be routed. <i>Compare</i> Ex. 1006 , <i>Chu '684</i> at 8:65-9:1 ("At step 608 , after receiving all the dialed digits from the phone 101 , server 110 consults its dial plan to determine whether the call is local, to another on-net phone, or to a phone that is on the PSTN.") <i>with</i> Ex. 1007 , <i>Chu '366</i> at Fig. 6. Finally, both references expressly reference E.164 as	which dialed digits and caller attributes are used to determine where the call should be routed. <i>Compare</i> Ex. 1006 <u>1003</u> , <i>Chu</i> '684 at 8:65-9:1 ("At step 608 , after receiving all the dialed digits from the phone 101 , server 110 consults its dial plan to determine whether the call is local, to another on- net phone, or to a phone that is on the PSTN.") with Ex. 1007 , <i>Chu</i> '366 <u>1004</u> , <i>Chen</i> at Fig. 6. Finally, both references expressly reference E.164 as an

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an international standard dial plan. *Compare* **Ex. 1006**, *Chu* '684 at 3:59-61 ("[E]ach IP phone [may be] assigned its own E.164 number (the international standard dial plan) and receiving calls from the PSTN directly.") with **Ex. 1007**, *Chu* '366 at 1:18-20 ("E.164 [] provides a uniform means for identifying any telephone number in the world to any telephony user in the world.").

It would have been obvious to one of skill in the art to modify the system described by Chu '684 with the specific dialed digit reformatting teachings of Chu '366. Given that the system of Chu '684 already contains all the infrastructure needed to support such reformatting, the modification to Chu '684 would be straightforward, not requiring undue experimentation, and would produce predictable results. Upon reading the disclosure of Chu '684, a person of ordinary skill in the art would have recognized that allowing users to place calls as if they were dialing from a standard PSTN phone would be desirable, creating a system capable of supporting a more intuitive and userfriendly interface. See Ex. 1009, Houh *Decl.* at ¶¶ 35-39.

international standard dial plan. *Compare* Ex. 10061003, *Chu* '684 at 3:59-61 ("[E]ach IP phone [may be] assigned its own E.164 number (the international standard dial plan) and from receiving calls the PSTN directly.") with 1007. Chu Ex. <u>1:18-20</u>¶ 006 '3661004, Chen at ("E.164 [] provides a uniform means for identifying any telephone number in the world to any telephony user in the world."). is an ITU-T (International Telecommunication Union Telecommunication **Standardization** Sector) recommendation that defines the international public telecommunication numbering plan.").

It would have been obvious to one of skill in the art to modify the system described by Chu '684 with the specific dialed digit reformatting teachings of *Chu '366Chen*. Given that the system of Chu '684 already contains all the infrastructure needed to support such reformatting, the modification to Chu '684 would be straightforward, not requiring undue experimentation, and would produce predictable results. Upon reading the disclosure of Chu '684, a person of ordinary skill in the art would have recognized that allowing users to place calls as if they were dialing from a standard PSTN phone would be desirable, creating a system capable of supporting a more intuitive and userfriendly interface. See Ex. 10091006, *Houh Decl.* at ¶¶ 35-39.40-44.

One of ordinary skill would thus have appreciated that these improvements to Chu '684 could be achieved by merely programming the system of Chu '684 to analyze the dialed digits and reformat as necessary using caller attributes such as national and area code. Such modifications are simply a combination of the system of Chu '684 with elements of Chu '366 that would have yielded predictable results without requiring undue experimentation. Id. at ¶ 38. Thus, it would have been natural and an more than application of nothing ordinary skill and common sense to combine Chu '684 with the number reformatting '366. of Chu Id. Therefore, claims 1, 7, 27-28, 34, 54, 72-74, 92-93, and 111 of the '815 Patent are unpatentable under §103(a) as obvious over Chu '684 in view of Chu '366, as shown in the charts below.

One of ordinary skill would thus have appreciated that these improvements to Chu '684 could be achieved by merely programming the system of Chu '684 to analyze the dialed digits and reformat as necessary using caller attributes such as national and area code. Such modifications are simply a combination of the system of Chu '684 with elements of Chu <u>'366Chen</u> that would have yielded predictable results without requiring undue experimentation. <u>IdSee id</u>. at ¶ 3843. Thus, it would have been natural and an application of nothing more than ordinary skill and common sense to combine Chu '684 with the number reformatting of Chu '366Chen. Id. Therefore, claims 1, 7, 27-28, 34, 54, 72-74, 92-93, and 111 of the '815 Patent are unpatentable under \$103(a)as obvious over *Chu* '684 in view of *Chu* <u>'366Chen</u>, as shown in the charts below.

Comparison of Petition at pp. 20-36 (Ground 1) II. With the Petition at pp. 41-58 (Ground 2)

<u>Right-hand column compares:</u>

the claim chart for Chu '684 + Chu '366 (Ground 1) with the claim chart for Chu '684 + <u>Chen</u> (Ground 2). Red strikethrough represents text in Ground 1, but not in Ground 2. Blue underline represents text in Ground 2, but not in Ground 1. [underlining in original omitted]

US Patent 8,542,815	Obvious over Chu '684 (Ex. 1003) in view of Chu <u>'366Chen</u> (Ex. <u>1004)1005)</u>
1. A process for operating a call routing controller to facilitate communication between callers and callees in a system comprising a plurality of nodes with	Chu '684 teaches a process for operating a soft- switch ("call routing controller") to facilitate telephone calls ("communication") between callers and callees, each of which is associated with one of a plurality of network nodes.
which callers and callees are associated, the process comprising:	Chu '684 describes "a novel method for establishing and managing voice call traffic in an VoIP IP virtual private network. The method comprises, in one embodiment, determining the relative location of a terminating point with respect to an originating point of a new communication containing the voice data, determining one or more IP addresses to egress the communication from the originating point to the terminating point." Ex. 1003 , <i>Chu</i> '684 at 2:34-44.
	"An apparatus for IP-based VPN communications includes at least one soft-switch and at least one packet switch having an interface to said at least one soft-switch. The packet switch has a VPN processing module for selectively establishing a VPN based on a selection of originating and terminating IP addresses of voice calls passed to the at least one soft-switch and at least one packet switch The apparatus may further include a PSTN gateway connected to a gateway soft-switch and said at least one soft-switch

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	for processing "off-net" calls." <i>Id.</i> at 2:51- 64; <i>see also id.</i> at 1:9-13.
(a) in response to initiation of a call by a calling subscriber, receiving a caller identifier and a callee identifier;	Chu '684 teaches servers and soft-switches that receive subscriber identification (e.g., IP address and ID of IP phone connection to server) and dialed digits of the called party ("caller identifier and callee identifier") when a caller initiates a call.
	"The soft-switch is the intelligence of the system. It contains all the information regarding the subscribers' VPNs. For example, it keeps track of the VPN that a location belongs to, the dial plans of the subscribers, the VPN identifier for an VPN (or a particular interface) and the like." <i>Id.</i> at 4:59-63.
	"At step 608 , after receiving all the dialed digits from the phone 101 , server 110 consults its dial plan to determine whether the call is local, to another on-net phone, or to a phone that is on the PSTN The server 110 then sends an SIP "invite" message to soft-switch 220 at the central office 205 The out- going call request message from server 110 to soft- switch 220 includes the following information : (1) the called number; (2) whether the number plan is the private numbering plan or the public E.164 number plan; (3) the ID of the connection to used []; (4) the IP address of IP phone 101 and UDP port number for the backward and forward channels; and (5) other parameters required for enhanced services and features." <i>Id.</i> at 8:65-9:26 (emphasis added).
(b) locating a caller dialing profile comprising a username associated with the caller and a plurality of calling attributes associated	Chu '684 teaches locating a subscriber's dial plan that includes a unique subscriber identifier (e.g., E.164 telephone number) ("username") and calling attributes of the subscriber.
with the caller;	"The soft-switch is the intelligence of the system. It contains all the information regarding the subscribers' VPNs. For example, it keeps track of the VPN that a location belongs to, the dial plans of the

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