

**Exhibit B-15 to HMD’s Invalidation Contentions**  
**Comparison of U.S. Patent No. 9,665,705 and U.S. Patent Application Publication No.**  
**(“Mathiassen”)**

As described in the following claim chart, asserted claims 1, 10, 11, and 15-17 of U.S. Patent No. 9,665,705 (“’705”) in view of U.S. Patent Application Publication No. 2004/0123113 (“Mathiassen”), alone or in combination with other prior art references and other arguments identified in HMD’s Invalidation Contentions, including, without limitation, as set forth in the chart below.

Mathiassen was filed on December 18, 2002 and published on June 24, 2004. Mathiassen is accordingly prior art under at least pre-AIA § 102(e). Mathiassen anticipates or renders obvious, alone or in combination with other prior art, one or more of the Asserted Claims of the ’705 patent as described in the chart below and in the main Invalidation Contentions chart is annexed.

Nothing in these claim charts should be construed as an admission regarding infringement, either literally or under the doctrine of equivalents, or as an admission regarding HMD’s understanding of the proper scope of the Asserted Claims. Given the Plaintiff’s infringement contentions, the exemplary citations herein necessarily account for a variety of possible prior art and claim constructions, including the claim constructions and interpretations apparently advanced by Plaintiff.

To the extent Plaintiff contends that Mathiassen fails to disclose, teach, or suggest one or more of the claim elements, it would be obvious to combine Mathiassen with one or more of the prior art references listed in HMD’s Invalidation Contentions element-by-element in Exhibit C, and with the knowledge of a person of ordinary skill in the art, to render the asserted claims obvious. As included in the following claim chart, it would be obvious to combine Mathiassen with at least the following prior art references or in combination with each other:

- U.S. Patent No. 6,877,097 (“Hamid”)
- U.S. Patent No. 7,404,486 (“Sands”)
- U.S. Patent No. 7,697,729 (“Howell”)
- U.S. Patent Pub. No. 2002/0063154 (“Hoyos”)
- U.S. Patent No. 6,766,456 (“McKeeth”)
- U.S. Patent No. 6,983,061 (“Ikegami”)

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<sup>1</sup> CPC has indicated that it has dropped previously asserted claims and is now asserting only claims 1, 10, 11, and 15-17 of the ’705 patent. Defendant’s Interrogatory No. 21, served February 24, 2022.

- U.S. Patent No. 5,933,515 (“Pu”)
- PCT Pub. No. WO 2005/043451 (“Steinar”)
- U.S. Patent No. 6,509,847 (“Anderson”)
- U.S. Patent No. 6,088,585 (“Schmitt”)
- U.S. Patent No. 6,219,793 (“Li”)

This claim chart is a part of HMD’s Invalidation Contentions and supports the arguments therein. This claim combination with the arguments provided in HMD’s Invalidation Contentions.

Citations to particular supporting evidence are merely exemplary of where each limitation of each asserted claim is disclosed or taught by Mathiassen and/or other prior art. HMD reserves the right to rely on other evidence of how Mathiassen alone or in combination with other prior art renders the ’705 patent invalid.

<b>Invalidity Claim Chart - U.S. Pat. No. 9,665,705</b>	
<b>Claim Element</b>	<b>Mathiassen</b>
1. A system for providing secure access to a controlled item, the system comprising:	<p>To the extent the preamble is limiting, Mathiassen discloses a system for providing secure access to a controlled item explicitly, inherently, or as a matter of common sense, or it would be obvious to add missing aspects of the limitation.</p> <p>For example, see the following passages and/or figures, as well as all related disclosures.</p>

Invalidity Claim Chart - U.S. Pat. No. 9,665,705

Claim Element	Mathiassen
	<p style="text-align: center;">Figure 2a</p> <p>Mathiassen at Fig. 2a</p>

Invalidity Claim Chart - U.S. Pat. No. 9,665,705

Claim Element	Mathiassen
	<p style="text-align: right;">Figure 2b</p> <p>The diagram illustrates the internal architecture of the F-SoC ASIC. At the top, a Processor (2) is connected to an Image Capture &amp; Pre-Processing block, which in turn connects to an SPI interface and a FingerPrint Sensor (5). The Processor is connected to an AHB bus (3). Below the AHB bus is an Arbitrator (11d). The AHB bus connects to an SDRAM Interface (6a), an Address Decoder (11a), a USB Interface (9a), and an Ethernet Interface (9b). The AHB bus also connects to an APB bus (4). Below the APB bus is an Interrupt Controller (11f). The APB bus connects to an AHB/APB Bridge, an Internal Memory (6c), TDES (DES, ECB, CBC) (8b), Secure Key Generation (8a), and a SmartCard Interface (7b). The SmartCard Interface is connected to a SmartCard Block (EEPROM) (embedded in CMOS) (replacing external FLASH) (7a). The APB bus also connects to a Watchdog Timer, an Operation Mode block, and an External Clock (11e). The External Clock is connected to a Wake-Up block (10). The Wake-Up block is connected to the Image Capture &amp; Pre-Processing block. The Image Capture &amp; Pre-Processing block is also connected to a General Purpose IO (9c) and a Serial Port (9d).</p> <p>Mathiassen at Fig. 2b</p>

<b>Invalidity Claim Chart - U.S. Pat. No. 9,665,705</b>	
<b>Claim Element</b>	<b>Mathiassen</b>
	<p style="text-align: center;">Figure 8</p> <p>Mathiassen at Fig. 8</p> <p>“A portable or embedded access device is provided for being coupled to, and for providing authorized users access to, an access-limited apparatus, device, network or system, such as a terminal, an internet bank or a corporate or government intranet. The access device includes an integrated circuit (IC) (1) providing increased security by bridging the functional communication between an input from a user and, upon positive authentication of the user's fingerprint locally, providing secure communication with the said access-limited apparatus, device, network or system, either locally or remote.</p> <p>A corresponding method of using the portable device or the embedded device is disclosed, including providing a bridge from biometrics input to a computer locally, into secure communication with responses to a non-biometrics network.</p>

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