

Exhibit 4

BELL NORTHERN RESEARCH LLC’S DISCLOSURE OF ASSERTED CLAIMS AND INFRINGEMENT

U.S. Patent No. RE 48,629 – HMD America, Inc. and HMD Global Oy (“HMD”)

Claims 1, 8, 9, 10, 11, 13, 14, 19, 20, and 27

Bell Northern Research, LLC (“BNR”) provides evidence of infringement of claims 1, 8, 9, 10, 11, 13, 14, 19, RE 48,629 (hereinafter “the ’629 patent”) by HMD America, Inc. and HMD Global Oy (“Defendant”). In support thereof, BNR provides claim charts.

“Accused Instrumentalities” as used herein refers to at least the Nokia G50 and the Nokia 1, Nokia 1 Plus, Nokia 2 V, Nokia 2 V Tella, Nokia 2.1, Nokia 2.2, Nokia 2.3, Nokia 2.4, Nokia 3, Nokia 3 V, Nokia 3.1, Nokia 3.1 Plus, Nokia 3.2, Nokia 3.4, Nokia 4.2, Nokia 5, Nokia 5.1, Nokia 5.1 Plus, Nokia 5.3, Nokia 5.4, Nokia 6, Nokia 6.1, Nokia 6.2, Nokia 7 Plus, Nokia 7.1, Nokia 7.2, Nokia 8, Nokia 8 Sirocco, Nokia 8V 5G UW, Nokia 8.1, Nokia 8.3 5G, Nokia 9 PureView, Nokia 800 Tough, Nokia 8110 4G, Nokia 2720 V Flip, Nokia 2760 Flip, Nokia 6300 4G, Nokia C1, Nokia C1 Plus, Nokia C2, Nokia C2 Plus, Nokia C3, Nokia C10, Nokia C20, Nokia C21, Nokia C30, Nokia C100, Nokia C200, Nokia C2 Tava, Nokia G10, Nokia G20, Nokia G21, Nokia G300 5G, Nokia X71, Nokia T10, Nokia T20, Nokia XR20, Nokia X100 5G, Nokia G100, Nokia 2760 Flip. These claim charts demonstrate Defendant’s infringement by comparing each element of the asserted claims to corresponding aspects, and/or features of the Accused Instrumentalities. These claim charts are not intended to constitute an expert report. The claim charts include information provided by way of example, and not by way of limitation.

The analysis set forth below is based only upon information from publicly available resources regarding the Accused Instrumentalities. Defendant has not yet provided any non-public information. An analysis of Defendant’s (or other third parties’) technical software source code may assist in fully identifying all infringing features and functionalities. Accordingly, BNR reserves the right to revise this infringement analysis once such information is made available to BNR. Furthermore, BNR reserves the right to revise this analysis as appropriate, upon issuance of a court order construing any terms recited in the asserted claims.


BNR provides this evidence of infringement and related analysis without the benefit of claim construction or expert testimony. BNR reserves the right to supplement, amend or otherwise modify this analysis and/or evidence based on any such claim construction reports or discovery.

Unless otherwise noted, BNR contends that Defendant directly infringes the ’629 patent in violation of 35 U.S.C. 101 to sell, making, using, and/or importing the Accused Instrumentalities. The following exemplary analysis demonstrates that, unless otherwise noted, BNR further contends that the evidence below supports a finding of indirect infringement under 35 U.S.C. 271(b) in conjunction with other evidence of liability under one or more of those subsections. Defendant makes, uses, sells, imports, offers for sale in the United States, or has made, used, sold, imported, or offered for sale in the past, without authority, or induces others to make, use, sell, import, or offer for sale in the United States, or has induced others to make, use, sell, import, or offer for sale in the past, without authority.

BELL NORTHERN RESEARCH, LLC'S DISCLOSURE OF ASSERTED CLAIMS AND INFRINGEMENT CONTENT

Unless otherwise noted, BNR believes and contends that each element of each claim asserted herein is literally met to the provision of the Accused Instrumentalities. However, to the extent that Defendant attempts to allege that any asserted claim is not met, BNR believes and contends that such elements are met under the doctrine of equivalents. More specifically, in its investigation of the Accused Instrumentalities, BNR did not identify any substantial differences between the elements of the patent claims and the features of the Accused Instrumentalities, as set forth herein. In each instance, the identified feature of the Accused Instrumentality performs at least substantially the same function in substantially the same way to achieve substantially the same result as the corresponding

To the extent the chart of an asserted claim relies on evidence about certain specifically identified Accused Instrumentalities, on information and belief, any similarly functioning instrumentalities also infringe the charted claim. BNR reserves the right to conduct an analysis based on other products made, used, sold, imported, or offered for sale by Defendant. BNR also reserves the right to conduct an analysis by citing other claims of the '629 patent, not listed in the claim chart, that are infringed by the Accused Instrumentality. BNR reserves the right to amend this infringement analysis by adding, subtracting, or otherwise modifying content in the "Accused Instrumentality" chart.

Claim #1	Accused Instrumentalities
<p>1. A wireless communications device, comprising:</p>	<p>The preamble is not limiting. To the extent that the preamble is considered limiting Instrumentalities include a wireless communications device.</p> <p>For example, the Nokia G50 is a wireless communication device that implements the 802.11 standard (incorporated into IEEE Std. 802.11-2016) and new versions of 802.11 that are back</p> 

	<h2>Connectivity</h2> <p>Bluetooth: 5.0 Headphone jack: 3.5 mm Location: GPS/AGPS, BDS Location: GPS/AGPS, BDS USB connection: USB Type-C WiFi: 802.11 a/b/g/n/ac/ax NFC Supported</p> <p>Source: https://www.nokia.com/phones/en_us/nokia-g-50/specs?sku=F16BYA1022 (February 3, 2023)</p>
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