IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

Samsung Electronics Co., Ltd.,
Petitioner,

v.

SiOnyx, LLC,
Patent Owner.

Case No. IPR2025-00065
Patent No. 10,347,682

PETITIONER'S EXPLANATION OF PARALLEL PETITIONS CHALLENGING U.S. PATENT NO. 10,347,682

In accordance with the USPTO's PTAB Trial Practice Guide, Petitioner Samsung Electronics Co., Ltd. ("Petitioner") submits this explanation for filing two petitions for *inter partes* review of U.S. Patent No. 10,347,682 (the "'682 patent"), filed in IPR2025-00064 ("Petition A") and IPR2025-00065 ("Petition B"). *See* "Patent Trial and Appeal Board Consolidated Trial Practice Guide November 2019" ("TPG") at 59-60.

Two petitions are required because Petitioner is challenging 44 claims. *See id.*; *see also Microsoft Corp. v. IPA Techs. Inc.*, IPR2019-00810, Paper 12 at 13-14 (Oct. 16, 2019) (determining that multiple petitions were reasonable when a petitioner was "[f]aced with word count limitations and a large number of challenged claims"). Indeed, the claim listings alone for the challenged claims include 1,096 words, collectively. The Board should institute both *inter partes* reviews.

I. EXPLANATION OF THE MATERIAL DIFFERENCES BETWEEN THE TWO PETITIONS

The petitions challenge the same claims over different prior art references:

Petition	Challenged claims of the '682 patent	Ground
Petition A: IPR2025-00064	1-3, 6-8, 11-12, 15-18, 21, and 26-27	Ground A-1: §102 and/or §103 over Haddad138
	4-5, 14, and 21-22	Ground A-2: §103 over Haddad138 and Baggenstoss
	9-10, 13, 19-20, 28-31, and 34-42	Ground A-3: §103 over Haddad138 and Alie

	23	Ground A-4: §103 over Haddad138 and Haddad204
	23	Ground A-5: §103 over Haddad138 and Park
	32-33 and 42-43	Ground A-6: §103 over Haddad138, Alie, and Baggenstoss
	44	Ground A-7: §103 over Haddad138, Alie, and Haddad024
	44	Ground A-8: §103 over Haddad138, Alie, and Park.
	24-25	Ground B-1: §103 over Park and Baggenstoss
Petition B: IPR2025-00065	1-3, 5-22, 24-31, and 33-43	Ground 1: §103 over Alie
	4-5, 14, 21-22, 25, 32-33, and 42-43	Ground 2: §103 over Alie and Baggenstoss
	23 and 44	Ground 3: §103 over Alie and Haddad204
	23 and 44	Ground 4: §103 over Alie and Park

The length and number of challenged claims justifies multiple petitions. Petitioner challenges 44 claims. The challenged claims themselves are lengthy, and consist of more than 1,000 words in total. Petitioner thus requires additional words to challenge the asserted claims, despite its best efforts to narrow the unpatentability issues presented to the Board. For example, within each petition, any given claim is challenged based on only one primary reference. The petitions have not been split by claims, as doing so would have required significant repetition of arguments. In order to facilitate the Board's review, the petitions have instead been split by grounds.

II. RANKING OF THE PETITIONS

Given the overlapping issues raised in the petitions, the burden of addressing the grounds of both petitions would not be substantially greater than the burden of addressing the grounds of either petition alone, and the Board should institute *inter partes* review on both petitions. In addition, the Board and the parties can obtain efficiencies by holding a single oral hearing and consolidating depositions in both proceedings. In accordance with the Board's direction that Petitioner should identify "a ranking of the petitions in the order in which it wishes the Board to consider the merits" (TPG at 60), though, Petitioner ranks Petition A first.

Date: November 22, 2024

Respectfully submitted,

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