UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

LG ENERGY SOLUTION, LTD.,
Petitioner

v.

MOLECULAR REBAR DESIGN, LLC,
Patent Owner

Case IPR2024-01012
U.S. Patent 10,608,282 B2

PATENT OWNER'S FIRST UPDATED MANDATORY NOTICES PURSUANT TO 37 C.F.R. § 42.8(a)(3)

Under 37 C.F.R. § 42.8(a)(3), Patent Owner Molecular Rebar Design, LLC hereby submits the following updated mandatory notices[1]:

I. REAL PARTY-IN-INTEREST – 37 CFR § 42.8(b)(1)

The real party-in-interest is Molecular Rebar Design, LLC, which owns all substantial rights to U.S. Patent No. 10,608,282, except that Molecular Rebar Design has granted its subsidiary Black Diamond Structures, LLC an exclusive license to the '282 Patent in the energy storage field, including applications and uses related to electrical energy storage, including without limitation anodes, cathodes, electrolytes, separators for batteries, capacitors and other storage devices.

II. RELATED MATTERS – 37 C.F.R. § 42.8(b)(2)

Patent Owner identifies the following matters that may be deemed related pursuant to 37 C.F.R. § 42.8(b)(2):

- *Molecular Rebar Design, LLC et al v. LG Energy Solution, Ltd.*, 2-24-cv-00107 (EDTX) filed Feb. 16, 2024 (asserting U.S. Patent Nos. 8,808,909; 8,968,924; 9,636,649; 10,153,483; 10,608,282)

[1] This submission is an update to Patent Owner's previously submitted Mandatory Notices (Paper 4) (July 1, 2024).

- *Molecular Rebar Design, LLC et al v. Samsung Electronics Co., Ltd. et al*, 2-24-cv-00108 (EDTX) filed Feb. 16, 2024 (asserting U.S. Patent Nos. 8,808,909; 8,968,924; 9,636,649; 10,153,483; 10,608,282)
- *Molecular Rebar Design, LLC et al v. LG Chem, Ltd. et al,* 1-22-cv-01130 (DDE) filed August 29, 2022 and dismissed on November 28, 2022 (asserting U.S. Patent Nos. 10,608,282, 8,475,961, and 9,636,649)
- *Samsung Electronics Co., Ltd. and Samsung Electronics America, Inc.:*
    - IPR2025-00355 (PTAB) (challenging U.S. Patent No. 9,636,649)
    - IPR2025-00356 (PTAB) (challenging U.S. Patent No. 8,808,909)
    - IPR2025-00357 (PTAB) (challenging U.S. Patent No. 8,968,924)
    - IPR2025-00358 (PTAB) (challenging U.S. Patent No. 10,608,282)
    - IPR2025-00359 (PTAB) (challenging U.S. Patent No. 10,153,483)
- *LG Energy Solution, Ltd. v. Molecular Rebar Design, LLC*:
    - IPR2024-01005 (PTAB) (challenging U.S. Patent No. 9,636,649)
    - IPR2024-01006 (PTAB) (challenging U.S. Patent No. 8,808,909)
    - IPR2024-01011 (PTAB) (challenging U.S. Patent No. 8,968,924)
    - IPR2024-01013 (PTAB) (challenging U.S. Patent No. 10,153,483)

III. LEAD AND BACKUP COUNSEL – 37 C.F.R. § 42.8(b)(3)

Patent Owner is represented in this proceeding by the following counsel:

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IV. SERVICE INFORMATION

Patent Owner hereby consents to service of all documents at the following e-mail addresses (electronic service):

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V. POWER OF ATTORNEY

A Power of Attorney for Patent Owner Molecular Rebar Design, LLC is being filed concurrently with these Mandatory Notices.

Dated: January 14, 2025

Respectfully submitted,

/Stephen D. Zinda/
Stephen D. Zinda
Reg. No. 67,272

Counsel for Molecular Rebar Design, LLC

CERTIFICATE OF SERVICE

Pursuant to 37 C.F.R. §§ 42.6(e)(4), the undersigned certifies that on January 14, 2025, the foregoing document was served via electronic mail on the following attorneys of record at the indicated e-mail address, which Petitioner has consented to electronic service for:

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