

UNITED STATES PATENT AND TRADEMARK OFFICE  
PATENT TRIAL AND APPEAL BOARD

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Union Electric Company

Petitioner,

v.

Birchtech Corporation,

Patent Owner

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IPR2025-01117  
Patent 10,596,517

**POWER OF ATTORNEY PURSUANT TO 37 C.F.R. § 42.10(b)**

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U.S. Patent and Trademark Office  
P.O. Box 1450  
Alexandria, VA 22313-1450

In accordance with 37 C.F.R. § 42.10(b), patent owner and real party in interest, Birchtech Corp., having a principal place of business at 1810 Jester Drive, Corsicana, TX 75151, hereby appoints:

Lead Counsel	Hamad M. Hamad (Registration No. 64,641)
Back-up Counsel	Justin T. Nemunaitis ( <i>Pro Hac Vice</i> forthcoming)
Back-up Counsel	Richard A. Cochrane ( <i>Pro Hac Vice</i> forthcoming)

as its attorneys, to act on its behalf in the *Inter Partes* Review of U.S. Patent No. 10,596,517, with full power to appoint an associate agent, and to transact all business before the United States Patent and Trademark Office in connection therewith.

Lead and back-up counsel’s contact and service information is provided below:

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I have authority to sign this document on behalf of Birchtech Corp.

Date: June 27, 2025

Respectfully submitted,

By: Richard MacPherson

Name: Richard MacPherson  
Title: CEO  
**For Birchtech Corp.**