IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

KVK-Tech, Inc.

v.

Petitioner,

SHIRE, LLC Patent Owner.

Case IPR2018-00290 US Patent No. 8,846,100

PETITIONER REPLY



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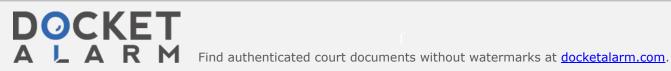


UPDATED EXHIBIT LIST

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