

UNITED STATES PATENT AND TRADEMARK OFFICE

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BEFORE THE PATENT TRIAL AND APPEAL BOARD

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UMICORE AG & CO. KG

Petitioner

v.

BASF CORPORATION

Patent Owner

Case IPR2015-01124

U.S. Patent 8,404,203

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**LISTING OF EXHIBITS**

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## LISTING OF EXHIBITS

- Exhibit 1101 U.S. Patent No. 7,601,662 to Bull et al.
- Exhibit 1102 U.S. Patent No. 4,046,888 to Maeshima et al.
- Exhibit 1103 U.S. Patent No. 4,503,023 to Breck, deceased et al.
- Exhibit 1104 U.S. Patent No. 6,709,644 to Zones et al.
- Exhibit 1105 U.S. Patent Application Publication No. US 2006/0039843 to Patchett et al.
- Exhibit 1106 U.S. Patent Application Publication No. US 2005/0031514 to Patchett et al.
- Exhibit 1107 Dedecek et al., "Siting of the Cu<sup>+</sup> Ions in Dehydrated Ion Exchanged Synthetic and Natural Chabasites: a Cu<sup>+</sup> Photoluminescence Study" Microporous and Mesoporous Materials, Vol. 32, pp. 63-74 (1999).
- Exhibit 1108 Expert Declaration of Johannes A. Lercher, Ph.D
- Exhibit 1109 Excerpts from File History of U.S. Patent No. 7,601,662 to Bull et al. and Reexamination No. 95/001,453
- Exhibit 1110 U.S. Patent No. 4,961,917 to Byrne
- Exhibit 1111 U.S. Patent No. 5,516,497 to Speronello et al.
- Exhibit 1112 Ishihara et al., "Copper Ion-Exchanged SAPO-34 as a Thermostable Catalyst for Selective Reduction of NO with C<sub>3</sub>H<sub>6</sub>," 169 Journal of Catalysis 93-102 (1997)
- Exhibit 1113 U.S. Patent No. 4,297,328 to Ritscher et al.
- Exhibit 1114 Chung, S.Y. et al., "Effect of Si/Al Ratio of Mordenite and ZSM-5 Type Zeolite Catalysts on Hydrothermal Stability for NO Reduction by Hydrocarbons," Studies in Surface Science and Catalysis, vol. 130, pp. 1511-1516 at 1513 (2000)
- Exhibit 1115 Declaration of Dr. Frank-Walter Schütze

- Exhibit 1116 Declaration of K. Patrick Herman in Support of Motion for *Pro Hac Vice* Admission Pursuant to 37 C.F.R. § 42.10(c)
- Exhibit 1117 Unused
- Exhibit 1118 Demonstrative Exhibit from the 4/12/2016 Deposition of Michael Tsapatsis, Ph.D.
- Exhibit 1119 Transcript of the 4/12/2016 Deposition of Michael Tsapatsis, Ph.D.
- Exhibit 1120 Transcript of the 4/29/2016 Deposition of Olivia Schmidt
- Exhibit 1121 WO 2014/161860 and English Machine Translation

## CERTIFICATE OF SERVICE

The undersigned hereby confirms that the foregoing LISTING OF EXHIBITS was served on May 24, 2016 via e-mail upon the following counsel of record for Patent Owner:

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