

UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

UMICORE AG & CO. KG,

Petitioner,

v.

BASF CORPORATION

Patent Owner.

IPR2015-01125

U.S. Patent 7,601,662

**PATENT OWNER'S RESPONSE TO PETITION
FOR *INTER PARTES* REVIEW OF U.S. PATENT NO. 7,601,662**

Table of Contents

I. INTRODUCTION1

II. THE 662 PATENT6

 A. Overview of Zeolites6

 B. The Claimed Invention9

 C. The Outstanding Properties of the Claimed CuCHA Catalyst.....11

 D. Claim Construction12

 1. “[C]atalyst” (claim 1).....12

 2. “[Z]eolite having the CHA crystal structure” (claim 1)12

 3. [T]he catalyst effective to promote the reaction of ammonia with nitrogen oxides to form nitrogen and H₂O selectively” (claim 1)13

III. SCOPE AND CONTENT OF THE PRIOR ART.....15

 A. The Known Problem with Metal-Exchanged Zeolites.....16

 B. Zeolite Frameworks for the SCR of NO_x18

 C. Prior Art in the IPR Grounds.....20

 1. U.S. 4,046,888 to Maeshima (Exhibit 1102)20

 2. Dedecek (Exhibit 1107)22

 3. U.S. 4,503,023 to Breck (Exhibit 1103)23

 4. U.S. 2006/0039843 to Patchett (Exhibit 1105).....25

IV. THE CHALLENGED CLAIMS ARE NOT OBVIOUS IN VIEW OF MAESHIMA, DEDECEK, BRECK AND PATCHETT 84326

 A. Maeshima in view of Breck (Ground 1 – Claims 1, 2, 5, 6, 30).....28

 B. Dedecek in view of Breck (Ground 3 – Claims 1, 2, 5, 6, 30).....30

 C. Maeshima and Breck in view of Patchett 843 (Ground 2 – Claims 12-24, 32-38).....32

 D. Dedecek and Breck in view of Patchett 843 (Ground 4 – Claims 12-24, 32-38).....36

V. OBJECTIVE INDICIA STRONGLY SUPPORT A FINDING OF NONOBVIOUSNESS38

A.	Skepticism of Experts.....	40
B.	Unexpected Results	42
C.	Commercial Success.....	45
VI.	PETITIONER'S CLAIMS OF PREDICTABILITY ARE WITHOUT MERIT	47
D.	Criticality of the Claimed Ranges	49
E.	Predictability of Increasing Cu/Al Ratio.....	52
F.	Predictability of Increasing SAR	54
VII.	CONCLUSION.....	56

Petitioner's Table of Exhibits

Exhibit 1101	U.S. 7,601,662
Exhibit 1102	U.S. 4,046,888 to Maeshima
Exhibit 1103	U.S. 4,503,023 to Breck
Exhibit 1104	U.S. 6,709,644 to Zones
Exhibit 1105	U.S. Pat. App. Pub. 2006/0039843 to Patchett
Exhibit 1106	U.S. Pat. App. Pub. 2005/0031514 to Patchett
Exhibit 1107	Dedecek et al., "Siting of the Cu ⁺ Ions in Dehydrated Ion Exchanged Synthetic and Natural Chabasites: a Cu ⁺ Photoluminescence Study," Microporous and Mesoporous Materials, Vol. 32, pp. 63-74 (1999).
Exhibit 1108	Expert Declaration of Dr. Lercher
Exhibit 1110	U.S. 4,961,917 to Byrne
Exhibit 1111	U.S. 5,516,497 to Speronello
Exhibit 1112	Ishihara et al., "Copper Ion-Exchanged SAPO-34 as a Thermostable Catalyst for Selective Reduction of NO with C ₃ H ₆ ," 169 Journal of Catalysis 93-102 (1997)
Exhibit 1113	U.S. 4,297,328 to Ritscher
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 Schutze

Patent Owner's Table of Exhibits

Exhibit 2001	Declaration of Stanley Roth in the <i>Inter Partes</i> Reexamination of U.S. Patent No. 7,601,662
Exhibit 2002	Cavataio, G., et. al., "Enhanced Durability of a Cu/Zeolite Based SCR Catalyst." SAE Int. J. Fuels. Lubr., Vol. 1, Issue 1 (2008).
Exhibit 2003	Declaration of Ahmad Moini in the <i>Inter Partes</i> Reexamination of U.S. Patent No. 7,601,662
Exhibit 2004	Second Declaration of Pramod Ravindran in the <i>Inter Partes</i> Reexamination of U.S. Patent No. 7,601,662
Exhibit 2005	Third Party Comments After Patent Owner's Response After ACP in the <i>Inter Partes</i> Reexamination of U.S. Patent No. 7,601,662
Exhibit 2006	USPTO Right of Appeal Notice for Reexamination of U.S. Patent No. 7,601,662
Exhibit 2007	Request for <i>Inter Partes</i> Reexamination in the proceedings of U.S. Patent No. 7,601,662
Exhibit 2008	Order Granting/Denying Request for <i>Inter Partes</i> Reexamination of U.S. Patent No. 7,601,662
Exhibit 2009	Declaration of Stacey I. Zones in the <i>Inter Partes</i> Reexamination of U.S. Patent No. 7,601,662
Exhibit 2010	Declaration of Gary L. Haller in the <i>Inter Partes</i> Reexamination of U.S. Patent No. 7,601,662
Exhibit 2011	Second Declaration of Ahmad Moini in the <i>Inter Partes</i> Reexamination of U.S. Patent No. 7,601,662
Exhibit 2012	Centi, G., et. al., "Nature of Active Species in Copper-Based Catalysts and their Chemistry of Transformation of Nitrogen Oxides," Applied Catalysis A: General, Vol. 132, Issue 2 (1995)

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