UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

UMICORE AG & CO. KG Petitioner

V.

BASF CORPORATION

Patent Owner

Cases IPR2015-01121, -1125 U.S. Patent 7,601,662

Cases IPR2015-01123, -1124 U.S. Patent 8,404,203

PETITIONER'S ORAL ARGUMENT DEMONSTRATIVE EXHIBITS



Grounds at Issue

IPR2015-01121 ('662 patent)

- 1. Claims 1-8 and 30 obvious over Zones and Maeshima
- 2. Claims 12-24 and 32-50 obvious over Zones, Maeshima, and Pate

IPR2015-01125 ('662 patent)

- 1. Claims 1, 2, 5, 6, and 30 obvious over Maeshima and Breck
- 2. Claims 12-24 and 32-38 obvious over Maeshima, Breck, and Pato
- 3. Claims 1, 2, 5, 6, and 30 obvious over Dedecek and Breck
- 4. Claims 12-24 and 32-38 obvious over Dedecek, Breck, and Patch

IPR2015-01123 ('203 patent)

- 1. Claims 1, 14, 15, 17–22, 26, and 27 obvious over Zones and Maes
- 2. Claims 2–13, 16, 23–25, and 28-31 obvious over Zones, Maeshima

IPR2015-01124 ('203 patent)

- 1. Claims 1, 14, 15, 19, 20, 26, and 27 obvious over Maeshima and B
- 2. Claims 2-13, 16, 23-25, and 28-31 obvious over Maeshima, Brecl
- 3. Claims 1, 14, 15, 19, 20, 26, and 27 obvious over Dedecek and Bre
- 1 Claims 2 12 16 22 25 and 20 21 abridge over Dadocak Brook



'662 Patent – Claim 1

1. A catalyst comprising: an aluminosilical having the CHA crystal structure and a mole rate to alumina from about 15 to about 150 and an at of copper to aluminum from about 0.25 to about at a catalyst effective to promote the reaction of amount oxides to form nitrogen and H₂O selective.

IPR20



'203 Patent – Claim 26

26. A process for the reduction of oxides of contained in a gas stream in the presence of wherein said process comprises adding a reduction gas stream and contacting the gas stream controlled reductant with a catalyst comprising a zeolite. CHA crystal structure and a mole ratio of silication from about 15 to about 150 and an atomic ratio to aluminum from about 0.25 to about 1.

IPR201



Prior Art as of 2007

"Both synthetic and natural zeolites and their use in promoting reactions, including the selective reduction of nitrogen oxides ammonia in the presence of oxygen are well known in the art."

(IPR201) 662 F

- Q. Now, in 2007, zeolites with the CHA crystal structure were al is that true?
- A. Zeolites with a CHA crystal structure were known.

(IPR201) Tsapatsis De



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