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Environmental Protection Technology Series

**ASSESSMENT OF CATALYSTS
FOR CONTROL OF NO_x
FROM STATIONARY POWER PLANTS,
PHASE I VOLUME II -
DATA BANK CITATION INDICES**



Office of Research and Development
U.S. Environmental Protection Agency
Washington, DC 20460

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by

E.P. Koutsoukos, J.L. Blumenthal,
M. Ghassemi (TRW), and G. Bauerle (UCLA)

TRW Systems Group
One Space Park
Redondo Beach, California 90278

Contract No. 68-02-0648
ROAP No. 21ADF-003
Program Element No. 1AB014

EPA Project Officer: J.B. Wingo
Control Systems Laboratory
National Environmental Research Center
Research Triangle Park, North Carolina 27711

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CONTENTS (VOLUME II)

	<u>Page No.</u>
1. Introduction	1
2. Keyword Index (Catalytic NO _x Abatement Data Bank Printout)	3
3. Author Index (Bibliography - Catalytic NO _x Abatement Data Bank Printout)	178
4. Accession Number Index (Catalytic NO _x Abatement Data Bank Printout)	221

1. INTRODUCTION

This volume is comprised of three computer printouts representing three indices of the "Catalytic NO_x Abatement Data Bank" developed for the "Technical and Economic Assessment of Catalysts for Control of NO_x from Stationary Power Plants" Program.

The data bank contains in excess of 250 documents (articles and patents) selected from the following areas of NO_x and NO_x-SO_x R&D literature:

- Decomposition and oxidation of NO_x.
- Selective and nonselective catalytic NO_x reduction with actual or synthetic flue gases and ICE (internal combustion engine) exhaust.
- Basic studies on catalytic NO_x decomposition, oxidation, and reduction.
- Basic studies on ammonia decomposition and oxidation.
- Preparation procedures for NO_x abatement catalysts.
- Simultaneous NO_x-SO_x abatement
- Economic and engineering analyses on NO_x-SO_x control processes proposed for power-plant or related source utilization.

Each document was keyworded to reflect both broad and narrow areas of NO_x R&D for easy accession to very general and very specific information. An accession number was assigned to each document.

The first computer printout is the Keyword Index of the data bank which classifies the documents into 28 groups corresponding to the 28 keywords groups corresponding to the 28 keywords listed below:

<u>Keyword</u>	<u>Refer to</u>
1. BASE-METAL-CAT	All non-noble metal catalysts
2. CATALYT-DECOMP	Catalytic decomposition of NO _x
3. CATALYT-OXID	Catalytic oxidation of NO _x
4. CATALYT-REDXN	Catalytic reduction of NO _x
5. CU-BASED-CATAL	Copper-based catalysts
6. FLUE-GAS-CONTR	Data or information given for actual flue gases
7. MOBILE-SOURCE	Automotive NO _x control
8. NOBLE-METAL-CAT	Noble metal catalyst
9. OTHER-NOX-CAT	Catalyst other than noble, transition, and heavy metals and rare earths (e.g., Alkaline earths)
10. OXID-W/OTHER	Oxidation with oxidant other than oxygen
11. OXID-W/O ₂	Oxidation with oxygen
12. PATENTS	Patented catalysts or systems
13. POWER-PLANTS	References specific for power plants
14. RARE-EARTH-CAT	Catalysts containing rare earths
15. RED-W/GAS-MIXT	Data on information given for synthetic gas mixtures
16. RED-W/SULF-COMP	Reduction with sulfur compounds
17. REDXN-W/CO	Reduction with carbon monoxide
18. REDXN-W/FUEL	Reduction with liquid hydrocarbons
19. REDXN-W/HC	Reduction with gaseous hydrocarbons
20. REDXN-W/H ₂	Reduction with hydrogen
21. REDXN-W/NH ₃	Reduction with ammonia
22. REDXN-W/OTHER	Any NO _x catalytic reduction not covered above
23. REVIEW-ARTICLES	Articles presenting a view of the field of NO _x catalysis or containing extensive bibliographies
24. SELECTIVE-CATAL	Selective reduction in the presence of O ₂
25. SIM-NOX-SOX-CON	Simultaneous control of NO _x and SO _x
26. STATION-SOURCE	Stationary source control
27. TRANS-METAL-CAT	Transition metal catalysts
28. REL-MATL	Additional data related to NO _x processes

The second printout represents the bibliography (Author Index) of the data bank and the last computer printout is the Accession Number Index.

KEYWORD INDEX

CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
BASE-METAL-CAT	0003N		"EFFECT OF CATALYTIC CONVERTERS ON AUTOMOTIVE AMMONIA EMISSIONS" HUNTER, J.E. PAPER PRESENTED AT CENTRAL STATES SECTION, COMBUSTION INSTITUTE, ANN ARBOR, MICH., MAR. 1971, GMR-1061, 12P.
	0007N		"THE CATALYTIC DECOMPOSITION OF NITRIC OXIDE BY METALLIC OXIDES" WINTER, E.R.S. JOURNAL OF CATALYSTS, V.22, 1971, P.158-170
	0008N		"THE HETEROGENEOUS DECOMPOSITION OF NITRIC OXIDE WITH OXIDE CATALYSTS" FRASER, J.M., DANIELS, F. JOURNAL OF PHYSICAL CHEMISTRY, V.62, FEB. 1958, P.215-222
	0024N		"CATALYTIC DECOMPOSITION OF NITRIC OXIDE PRESENT IN LOW CONCENTRATIONS" SOURIRAJAN, S., BLUMFENTHAL, J.L. PROC. 2ND INT. CONGRESS CATALYSIS, PAPER 131, PARIS, 1960
	0030N		"STUDIES ON A NEW METHOD OF SIMULTANEOUSLY REMOVING SULFUR DIOXIDE AND OXIDES OF NITROGEN FROM COMBUSTION GASES" RYASON, P.R., HARKINS, J. JOURNAL OF THE AIR POLLUTION CONTROL ASSOCIATION, V.17, NO.12, DEC. 1967, P.796-799
	0031N		"CATALYST FOR COMPLETE REMOVAL OF OXIDES OF NITROGEN FROM AUTOMOBILE EXHAUST" KOSHIRO, I., ET AL. SEIDEI DAIGAKU KOGAKUBU KAGAKU HOKOKU, V.7, 1969, P.545-546 (JAPAN)

CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
BASE-METAL-CAT	0032N		"CATALYTIC REMOVAL OF NITROGEN OXIDES FROM EXHAUST GASES OF NITRIC ACID PLANTS" VAN DER DRIFT, J. CHEM. TECH, V24, NO. 10, 1969, P. 301-305 (NETH.)
	0039N		"PROCESS FOR CATALYTICALLY REDUCING NITROGEN OXIDES IN INDUSTRIAL STACK GASES" CHILDERS, E., ELLIS, C.W., RYAN, D.J. U.S. PATENT 2,910,343, OCT. 27, 1959, 7P.
	0045N		"NITROGEN OXIDE; FORMATION, SUPPRESSION, AND CATALYTIC REDUCTION" MEGUERIAN, G.H. WATER AIR CONSERV. PETROL. IND., 1971, P. 21-21
	0052N		"ENGINE EXHAUST EMISSION CONTROL SYSTEM" TOURTELOTTE, J.F., NEGRA, J.A., ET AL. U.S. PATENT 3,699,683, OCT. 24, 1972, 3P.
	0058N		"METHOD OF DECOMPOSING NITROGEN OXIDES" STEPHENS, R.E. U.S. PATENT 3,545,917, DEC. 8, 1970, 6P.
	0059N		"CATALYST COMPOSITION" STEPHENS, R.E. U.S. PATENT 3,524,721, AUG. 18, 1970, 6P.
	0061N		"PROCESS FOR REMOVING NITROGEN WITH COBALT-RARE EARTH AND GROUP VI CATALYST" KOVACH, S.M., ROGERS, F.S. U.S. PATENT 3,345,286, OCT. 3, 1967, 8P.

BASE-METAL-CAT

CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
BASE-METAL-CAT	0062N		"CATALYST FOR PURIFICATION OF EXHAUST GASES FROM MOTOR VEHICLES AND INDUSTRIAL PLANTS" KOBBERSTEIN,E.,LAKATOS,E. U.S. PATENT 3,669,906,JUNE 13,1972,8P.
	0064N		"METHOD OF TREATING EXHAUST GASES OF INTERNAL COMBUSTION ENGINES" GROSS,G.P.,ET AL. U.S. PATENT 3,370,914,FEB. 27,1968,27P.
	0075N		"AIR POLLUTION BY TOXIC GAS AND ITS COUNTER MEASURE" YAMATE,N. J. JAPAN AIR CLEANING ASSOC.,TOKYO,V.3,NO.2,P.19-25,1965 (JAPAN)
	0082N		"CATALYTIC AFTERBURNING OF ORGANIC AIR POLLUTANTS" BETZ,E.C.,FEIST,H.J. TECHNIK (BERLIN),V.20,NO.6,P.395-400,JUNE 1965 (GERMAN TR.)
	0086N		"CATALYST SYSTEM MORPHOLOGY AND DESIGN" DWYER,F.G. PROCEEDINGS,FIRST NATL. SYMP. ON HETEROGENEOUS CATALYSIS FOR CONTROL OF AIR POLLUTION,PHILADELPHIA,NOV. 1968,P.73-86
	0088N		"THE DECOMPOSITION OF NITROUS OXIDE ON THE RARE EARTH SESQUIOXIDES AND RELATED OXIDES" WINTER,E.R.S. JOURNAL OF CATALYSIS,V.15,NO.2,P.144-152,1969
	0093N		"CATALYTIC REDUCTION OF NITRIC OXIDE" SHELFF,M. PROC.,FIRST NATL. SYMP. ON HETEROGENEOUS CATALYSIS FOR CONTROL OF AIR POLLUTION,PHILADELPHIA,NOV. 1968,P.87-112

CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
BASE-METAL-CAT	0103N		"CATALYTIC DECOMPOSITION OF NO IN FLUE GAS (FINAL REPT.)" NUZUM,H.K.,WALLING,J.F. BATTELLE MEMORIAL INST.,COLUMBUS,OHIO,GRANT 5 R01 AP00577,41 P.,MAY 31,1969
	0110N		"TECHNIQUES FOR CONTROLLING THE OXIDES OF NITROGEN" HARDISON,L.C. JOURNAL AIR POLLUTION CONTROL ASSOC.,V.20,NO.6,P.377-382,JUN E 1970
	0112N		"UTILIZATION OF CATALYST IN AIR POLLUTION CONTROL " YAMANAKA,T. KAGAKU KOGYO (TOKYO),V.22,NO.3,P.102-108,MAR. 1971
	0115N		"DESIGN, CONSTRUCTION AND TESTING OF CATALYTIC AFTERBURNERS FOR REMOVAL OF AIR POLLUTANTS FORMED IN AUTOMOTIVE AND STATIONARY COMBUSTION PROCESSES" BAUERLE,G.L.,NOBE,K. IN PROJECT CLEAN AIR,V.1,U.C.L.A. SCHOOL OF ENGINEERING,RFSE ARCH PROJ. S-2,46P.,SEP. 1,1970
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	0130N		"CATALYTIC MECHANISMS FOR NITROGEN OXIDES REDUCTION (FINAL REPT.)" PETERS,M.S. COLORADO UNIV.,BOULDER,ENGINEERING RESEARCH CENTER,GRANT ORG /NAPCA AP 00388,15P.,MAR. 1,1971

CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
BASE-METAL-CAT	0132N		"CATALYTIC REDUCTION OF OXIDES OF NITROGEN (FINAL REPT.)" PETERSEN, E.E., BFL, A.T. UNIV. OF CALIF., BERKELEY, DEPT. OF CHEMICAL ENGINEERING, GRANT AP-00387, 6P., 1970
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	0145N		"AUTOMOTIVE EXHAUST GAS PURIFICATION CATALYST" TODO, M. SEKIYU TO SEKIYU KAGAKU (PETROL. PETROCHEM.), V.15, NO.7, P.103 -108, 1971 (JAPANESE)

CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
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	0162N		"KINETIC STUDIES OF THE N ₂ O-CO REACTION CATALYZED BY CHROMIUM-PROMOTED IRON OXIDE" LEECH, C.A., PETERS, M.S. PREPRINT, AMERICAN INST. OF CHEMICAL ENGINEERS, NEW YORK, 15P., 1971, FROM 64TH MEETING

CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
BASE-METAL-CAT	0166N		"OXIDATION-REDUCTION CATALYSIS" ROTH,J.F.,DOERR,R.C. INDUSTRIAL ENGINEERING CHEMISTRY,V.53,NO.4,P.293-296,APR. 1961
	0167N		"THE OXIDATION OF CO BY O2 AND BY NO ON SUPPORTED CHROMIUM OXIDE AND OTHER METAL OXIDE CATALYSTS" SHELEF,M.,OTTO,K.,GANDHI,H. JOURNAL OF CATALYSIS,V.12,NO.4,P.361-375,1968
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	0205N		"A LOW TEMPERATURE CATALYTIC APPROACH TO NO(X) CONTROL" LAWSON,A. JOURNAL OF CATALYSIS,24,1972,P.297-305

CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
BASE-METAL-CAT		0206N	"CATALYTIC PROPERTIES OF METAL OXIDES OF PERIOD VI OF THE PERIODIC SYSTEM WITH RESPECT TO OXIDATION REACTIONS" YUREVA, T.M., POPOVSKII, V.V., BOKESKOV, G.K. TRANSLATED FROM KINETIKA I KATALIZ, V. 6, NO. 6, NOV.-DEC. 1965 P. 1041-1045
		0213N	"DRY CATALYTIC REDUCING REACTION FOR NITROGEN OXIDES" KASAKA, N., MOTOO, K., SETSUO, I. PREPRINT, JAPAN SOCIETY OF CHEMICAL ENGINEERING, TOKYO, P. 25 -27, 1973
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		0220N	"POWER AND INDUSTRY; CONTROL OF NITROGEN OXIDE EMISSIONS" PERKINE, R.L., LIMIN, H. PROJECT CLEAN AIR, CALIF. UNIV. BERKELEY, TASK FORCE 5, 1(9) P. SEPT. 1970
		0222N	"METHOD OF REMOVING SULFUR DIOXIDE AND NITROGEN OXIDES FROM GASES" RYASON, P.R. U.S. PAT. 3,454,355, JULY 8, 1969
		0230N	"CHROMIUM OXIDE-IRON OXIDE-NICKEL OXIDE CATALYSTS FOR TREATMENT OF AUTOMOTIVE EXHAUST GASES" OKUYAMA, T., SANO, M., MINE, J. GER. OFFEN. 2308789 (B01J), AUG. 30, 1973

CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
BASE-METAL-CAT	0232N		"STABILITY OF NITRIC OXIDE OVER A LONG TIME INTERVAL" HOWARD,C.S.,DANIFLS,G. J. PHYS. CHEM., 62(3); 360-1, 1958
	0240N		"CATALYTIC DECOMPOSITION OF NITRIC OXIDE" RIESZ,C.H.,MORRITZ,F.L.,FRANSON,K.D. AIR POLLUTION FOUNDATION REPORT, NO. 20, 22P., 1957
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
BASE-METAL-CAT	0257N		"REDUCTION OF NITRIC OXIDE WITH HYDROGEN ON COPPER-NICKEL AND NICKEL-CHROMIUM CATALYSTS" ORSINI, R.A., TUNICK, S.A., BAUERLE, G.L., NORF, K. U.C.L.A. REPORT UCLA-ENG-7402, JAN. 1976
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
CATALYT-DECOMP	0024N		"CATALYTIC DECOMPOSITION OF NITRIC OXIDE PRESENT IN LOW CONCENTRATIONS" SOURIRAJAN, S., BLUMENTHAL, J. L. PROC. 2ND INT. CONGRESS CATALYSIS, PAPER 131, PARIS, 1960
	0032N		"CATALYTIC REMOVAL OF NITROGEN OXIDES FROM EXHAUST GASES OF NITRIC ACID PLANTS" VAN DER DRIFT, J. CHEM. TECH, V24, NO. 10, 1969, P. 301-305 (NETH.)
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	0059N		"CATALYST COMPOSITION" STEPHENS, R. E. U.S. PATENT 3,524,721, AUG. 18, 1970, 6P.
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
CATALYT-DECOMP	0069N		"CATALYTIC DECOMPOSITION OF NITROGEN DIOXIDE" NOBE,K.,WIKSTROM,L.L. PREPRINT,AM. CHEM. SOC.,PITTSBURGH,DOV. WATER,AIR WASTE CHEM ..P.268-273,1963
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
CATALYT-OXIDN	0016N		"CATALYTIC REDUCTION OF NITRIC OXIDE WITH CARBON MONOXIDE" BAUERLE,G.L.,SERVICE,G.R.,NOBE,K. I AND EC PRODUCT RESEARCH AND DEVELOPMENT,V.11,NO.1,MAR. 1972,P.54-58
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
CATALYT-OXIDN	0139N		"DRY TYPE SMOKE DESULFURIZATION TECHNIQUE USING METAL OXIDE CATALYST" INAGAKI,K. KOGAI (HAKUA SHOBO),V.7,NO.1,P.21-26,JAN. 1972 (JAPANESE)
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
CATALYT-REDXN	0032N		"CATALYTIC REMOVAL OF NITROGEN OXIDES FROM EXHAUST GASES OF NITRIC ACID PLANTS" VAN DER DRIFT, J. CHEM. TECH, V24, NO. 10, 1969, P. 301-305 (NETH.)
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
CATALYT-REDXN		0040N	"MATHEMATICAL DESCRIPTION OF A REACTOR FOR THE CATALYTIC CLEANING OF WASTE GASES FROM THE PRODUCTION OF WEAK NITRIC ACID AT 7.3 ATMOSPHERES" KHOKHEL,O.A.,ET AL. KHIM. PROM. (MOSCOW).V.45,NO.10,1969,P.752-754(RUSS.)
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC NO.	TITLE
CATALYT-REDXN	0051N	"CATALYSTS FOR THE INTERACTION OF NITROGEN OXIDES WITH AMMONIA STUDIED TO PURIFY WASTE GASES FROM NITRIC ACID PRODUCTION" ATROSHCHENKO,V.I.,ZASORIN,A.P.,KULISH,O.N. KATAL. KATAL.,1972,NO.9,P.26-30(RUSS.)
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC NO	TITLE
CATALYT-REDXN	0067N	"THE CATALYTIC NITRIC OXIDE REDUCTION AND AMMONIA OXIDATION (IV)" ADRUSOW,L. CHEM. BER.,V.60,P.536-540,1927 (GERMAN)
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
CATALYT-REDXN	0079N		"EMISSIONS AND ABATEMENT OF OXIDES OF NITROGEN IN NITRIC ACID MANUFACTURE" TESKE, W. CHEMICAL ENGINEERING, NO. 221, CE263-266, SEPT. 1968
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC NO	TITLE
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
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		0119N	"UTILIZATION OF CATALYST IN AIR POLLUTION CONTROL (3)" YAMANAKA,T. KAGAKU KOGYO (TOKYO),V.22,NO.4,P.534-539,APR. 1971 (JAPANESE)
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC NO	TITLE
CATALYT-REDXN	0137N	"CATALYSTS FOR PURIFICATION OF WASTE GASES CONTAINING OXIDES OF NITROGEN" HINDIN,S.G.,DETLING,J.C. U.S. PATENT 3,615,166,OCT. 26,1971,5P.
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
CATALYT-REDXN	0148N		"CHEMISTRY OF CATALYTIC NITROGEN OXIDE REDUCTION IN AUTOMOTIVE EXHAUST GAS" KLIMISCH,R.L.,BARNES,G.J. ENVIRONMENTAL SCIENCE AND TECHNOLOGY,V.6,NO.6,P.543-548,JUNE 1972
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CATALYT-REDXN

CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
CATALYT-REDXN	0157N		"RAPID, CONTINUOUS CONVERSION OF NO TO N ₂ PLUS H ₂ O" ALEI, M. LOS ALAMOS SCIENTIFIC LAB., N. MEX., REPT. LA-4904, UC-4, 5P., APR. R. 1972
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CATALYT-REDXN

CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
CATALYT-REDXN		0171N	"CATALYTIC PURIFICATION OF COMBUSTION GASES" HISADA,S. GER. PATENT 2,119,897,NOV. 18,1971,11P. (GERMAN)
		0172N	"MITSUBISHI STATUS REPORT ON LOW EMISSION CONCEPT VEHICLES" KANEKO,Y.,KIYOTA,Y. S.A.E. SPEC. PUB.,NO.370;1-12,MAY 1972 (PRESENTED AT THE NATIONAL AUTOMOBILE ENGINEERING MEETING,DETROIT,MAY 22-26,1972.
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		0174N	"CATALYSTS FOR AUTO EXHAUST EMISSION CONTROL." YAMAKI,N.,TSUCHIMOTO,K. UNION OF JAPANESE SCIENTISTS AND ENGINEERS,PROC. INT. SYMP. AIR POLLUT.,TOKYO,JAPAN,1972,P.643-656 (JAPANESE)
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
CATALYT-REDXN	0178N		"SYSTEMS STUDY OF NITROGEN OXIDE CONTROL METHODS FOR STATIONARY SOURCES" BARTOK,W.,ET AL. ESSO RESEARCH AND ENGINEERING CO.,FINAL RPT.,V. 2,NO. GR-2-M PS-69,NOV. 20,1969 (PB 192-789)
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
CATALYT-REDXN	0196N		"ISOCYANATE INTERMEDIATES IN THE REACTION NO-CO OVER A PT/AL ₂ O ₃ CATALYST" UNLAND,M.L. JOURNAL OF PHYSICAL CHEMISTRY,V. 77,NO. 16, 1973,P.1952-1956
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
CATALYT-REDXN	0213N		"DRY CATALYTIC REDUCING REACTION FOR NITROGEN OXIDES" KASAOKA,N.,MOTOO,K.,SETSUO,I. PREPRINT,JAPAN SOCIETY OF CHEMICAL ENGINEERING, TOKYO, P. 25 -27, 1973
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
CATALYT-REDXN		0229N	"COPPER-IRON-NICKEL ALLOY CATALYSTS FOR REMOVAL OF NITRIC OXIDE FROM AUTOMOTIVE EXHAUST GASES" NIIMI, I., MORITA, A., MENOTO, Y., SATO, M. GER. OFFEN. 2306785 (C 22C), AUG. 23, 1973
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
CU-BASED-CATAL	0129N		"THE EFFECT OF LEAD ON THE CATALYTIC REDUCTION OF NITRIC OXIDE WITH CARBON MONOXIDE ON CU-AL 203" SORENSEN, L., L., NOBE, K. PREPRINT, AMERICAN CHEMICAL SOCIETY, WASHINGTON, DIV. OF WATER, AIR, AND WASTE CHEMISTRY, 5P., 1971
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
CU-BASED-CATAL	0151N		"APPLICATION OF A MONEL-PLATINUM DUAL-CATALYST SYSTEM TO AUTOMOTIVE EMISSION CONTROL" LUNT,R.S.,BERNSTEIN,L.S.,HANSEL,J.G.,HOLT,E.L. PREPRINT, SOCIETY OF AUTOMOTIVE ENGINEERS,INC.,NEW YORK,16P.,1972
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
CU-BASED-CATAL	0192N		"REDUCING NITROGEN COMPOUND CONTENT IN EXHAUST GAS" GANDHI,H.,SHELEF,M. FR. 2151322 (F 01N),MAY 18,1973,8P.
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	0206N		"CATALYTIC PROPERTIES OF METAL OXIDES OF PERIOD VI OF THE PERIODIC SYSTEM WITH RESPECT TO OXIDATION REACTIONS" YUREVA,T.M.,POPOVSKII,V.V.,BORESKOV,G.K. TRANSLATED FROM KINETIKA I KATALIZ,V. 6,NO. 6.NOV.-DEC. 1965 P.1041-1045
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
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	0223N		"CATALYTIC ACTIVITY OF SPINELS AND THEIR OXIDE CONTENT IN THE REACTION OF NITRIC OXIDE WITH CARBON MONOXIDE" VLADENKI,V.M.,YUZEFOVICH,G.E.,NEPIYUSHCHAYA,R.P. INST. FIZ. KHIM. IM. PISARZHEVSKOGO, KIEV, USSR, KATAL. KATA L. (KAKAA), NO. 10, 81-5, 1973
	0228N		"CATALYST FOR REMOVING NITROGEN OXIDES" HASEGA,O.,YOKOTA,S. JAPAN. KOKAI 73 55890 (13(9)G11), AUG. 6, 1973
	0229N		"COPPER-IRON-NICKEL ALLOY CATALYSTS FOR REMOVAL OF NITRIC OXIDE FROM AUTOMOTIVE EXHAUST GASES" NIIMI,I.,MORITA,A.,MENOTO,Y.,SATO,M. GER. OFFEN. 2306785 (C 22C), AUG. 23, 1973
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
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	0035N		"CATALYTIC REDUCTION OF NITROGEN OXIDES IN AUTOMOBILE EXHAUST" BAKER, R. A., DOERR, R. C. JOURNAL OF AIR POLLUTION CONTROL ASSOCIATION, V. 14, NO. 10, OCT. 1964, P. 409-414
	0038N		"SELECTIVE REMOVAL OF OXIDES OF NITROGEN FROM GAS MIXTURES CONTAINING OXYGEN" NONNENMACHER, H., KARTTE, K. U.S. PATENT 3,279,384, OCT. 18, 1966, 4P.
	0043N		"CATALYST FOR NITROGEN OXIDE REDUCTION" KLIMISCH, R. L. U.S. PATENT 3,674,423, JULY 4, 1972, 2P.
	0052N		"ENGINE EXHAUST EMISSION CONTROL SYSTEM" TOURTELOTTE, J. F., NFGRA, J. A., ET AL. U.S. PATENT 3,699,683, OCT. 24, 1972, 3P.
	0060N		"CATALYTIC CONVERSION OF EXHAUST GAS IMPURITIES" KEARBY, K. K. U.S. PATENT 3,565,574, FEB. 23, 1971, 8P.
	0062N		"CATALYST FOR PURIFICATION OF EXHAUST GASES FROM MOTOR VEHICLES AND INDUSTRIAL PLANTS" KOBERSTEIN, E., LAKATOS, E. U.S. PATENT 3,669,906, JUNE 13, 1972, 8P.

CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
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	0172N		"MITSUBISHI STATUS REPORT ON LOW EMISSION CONCEPT VEHICLES" KANEKO,Y.,KIYOTA,Y. S.A.E. SPEC. PUB.,NO.370;1-12,MAY 1972 (PRESENTED AT THE NATIONAL AUTOMOBILE ENGINEERING MEETING,DETROIT,MAY 22-26,1972,
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
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	0226N		"CATALYTIC REMOVAL OF NITROGEN OXIDES FROM AUTOMOTIVE EXHAUST GASES" SIMIZU,I.,DAWASAKI,M. JAPAN. KOKAI 73 71366(13(7)A11, 51 D51, 13(9) G3),SEPT. 27, 1973
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
FLUE-GAS-CONTR	0242N		"SELECTIVE REMOVAL OF NITROGEN OXIDES FROM OXYGEN-CONTAINING GASES ESPECIALLY FROM NITRIC ACID PRODUCTI COHN,J.,STEELE,D.R.,ANDERSEN,H.C. U.S. 2,975,025,NOV. 5, 1971
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
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	0035N		"CATALYTIC REDUCTION OF NITROGEN OXIDES IN AUTOMOBILE EXHAUST" BAKER, R.A., DOERR, R.C. JOURNAL OF AIR POLLUTION CONTROL ASSOCIATION, V. 14, NO. 10, OCT. 1964, P. 409-414
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
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	0045N		"NITROGEN OXIDE; FORMATION, SUPPRESSION, AND CATALYTIC REDUCTION" MEGUERIAN,G.H. WATER AIR CONSERV. PETROL. IND.,1971,P.21-21
	0049N		"NOX REDUCTION CATALYSTS FOR VEHICLE EMISSION CONTROL" MEGUERIAN,G.H.,ET AL. PROC.,DEV. REFINING,AMERICAN PETROLEUM INST.,1972,V.52,P.740 -760
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
MOBILE-SOURCE	0052N		"ENGINE EXHAUST EMISSION CONTROL SYSTEM" TOURTELOTTE, J.F., NEGRA, J.A., ET AL. U.S. PATENT 3,699,683, OCT. 24, 1972, 3P.
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
MOBILE-SOURCE	0136N		"EXHAUST GAS PURIFICATION" JONES, J.H., WEAVER, E.E. U.S. PATENT 3,599,427, AUG. 17, 1971, 6P.
	0140N		"CATALYTIC CONTROL OF NOX EMISSIONS FROM MOBILE SOURCES (FINAL REPORT)" SEEGALL, M.I., NAPIER, J.C., COMPTON, W.A. INTERNATIONAL HARVESTER CO., SAN DIEGO, CA., RESEARCH LABS., REP T. RDR 1700, 143P., DEC. 1971
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
MOBILE-SOURCE	0173N		"FIAT STATUS REPORT ON LOW EMISSION CONCEPT VEHICLES" POLLONE,C. S.A.E. PUB.,NO.370;1-16,MAY 1972 (PRESENTED AT THE NATIONAL AUTOMOBILE ENGINEERING MEETING,DETROIT,MAY 22-26,1972,PAPER
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC NO	TITLE
MOBILE-SOURCE	0190N	"CATALYTIC DECOMPOSITION OF NITROGEN OXIDES" OUDAN,K.,SASAYA,H.,YOSHIDA,K.,OTSUKA,H. JAPAN. KOKAI 7355870 (13(7)A11), AUG. 6,1973,4P.
	0192N	"REDUCING NITROGEN COMPOUND CONTENT IN EXHAUST GAS" GANDHI,H.,SHELEF,M. FR. 2151322 (F 01N),MAY 18,1973,8P.
	0193N	"CATALYSTS FOR EXHAUST GAS TREATMENT" OKUYAMA,T.,SANO,M.,MANABE,S.,IWARUCHI,H. GER. OFFEN. 2252402 (B 01J, F 01N),MAY 30,1973,36P.
	0197N	"THE CATALYTIC REDUCTION OF NITRIC OXIDE OVER SUPPORTED RUTHENIUM CATALYSTS" TAYLOR,K.,KLIMISCH,R.L. JOURNAL OF CATALYSIS,V. 30,NO. 3,1973,P.478-484
	0198N	"CONTROL OF NITROGEN OXIDES EMISSION FROM ENGINES" TOURTELLOTEE,J.F.,NEGRA,J.S.,WARSHAW,A.,VILLIERSFISHER,J. U.S. 3739583, JUNE 19,1973,5P.
	0199N	"PALLADIUM-PLATINUM CATALYSTS FOR DECOMPOSITION OF NITROGEN OXIDES" TSUNOI,K.,TADA,K. JAPAN. KOKAI 73 15785,FEB. 28,1973,3P.
	0200N	"REDUCTION OF NITROGEN OXIDE IN EXHAUST GAS FROM INTERNAL COMBUSTION ENGINES" HORIE,K.,YAMAUCHI,S.,HARA,J.,OHARA,T. JAPAN. KOKAI 73 42989,JUNE 21,1973,6P.

CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TIT F
MOBILE-SOURCE	0201N		"CATALYSTS FOR THE REDUCTION OF NITROGEN OXIDES" GERHARD,M.,SIEPMANN,R.,KUMMER,F. GER. OFFEN. 2151958 (B 01J),APR. 26,1973,10P.
	0202N		"CATALYST FOR REDUCING NITROGEN OXIDES" KOORI,Y.,OKAMOTO,O.,KAWAKAMI,A.,WATANABE,S. JAPAN. KOKAI 73 28391 (13(9)G11),APR. 14,1973,3P.
	0205N		"A LOW TEMPERATURE CATALYTIC APPROACH TO NO(X) CONTROL" LAWSON,A. JOURNAL OF CATALYSIS,24,1972,P.297-305
	0206N		"CATALYTIC PROPERTIES OF METAL OXIDES OF PERIOD VI OF THE PERIODIC SYSTEM WITH RESPECT TO OXIDATION REACTIONS" YUREVA,T.M.,POPOVSKII,V.V.,BORESKOV,G.K. TRANSLATED FROM KINETIKA I KATALIZ,V. 6,NO. 6,NOV.-DEC. 1965 P.1041-1045
	0216N		"NOX REDUCTION CATALYSTS FOR VEHICLE EMISSION CONTROL" MEGUERIAN,G.H.,RAKOWSKY,F.W.,HIRSCHBERG,E.H.,LANG,C.R.,SCHOC SOC. AUTOMOT. ENGRS., SPEC. PUB. NO. 370, 24P., MAY 1972
	0225N		"COBALT SULFIDE AND NICKEL SULFIDE CATALYSTS FOR REDUCTION OF NITROGEN OXIDES IN EXHAUST GASES" POMOT,J.L.E. GER. OFFEN. 2307342 (B01J), AUG. 30, 1973
	0226N		"CATALYTIC REMOVAL OF NITROGEN OXIDES FROM AUTOMOTIVE EXHAUST GASES" SIMIZU,I.,DAWASAKI,M. JAPAN. KOKAI 73 71366(13(7)A11, 51 D51, 13(9) G3),SEPT. 27, 1973

CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
MOBILE-SOURCE	0228N		"CATALYST FOR REMOVING NITROGEN OXIDES" HASEGA,O.,YOKOTA,S. JAPAN, KOKAI 73 55890 (13(9)G11), AUG. 6, 1973
	0229N		"COPPER-IRON-NICKEL ALLOY CATALYSTS FOR REMOVAL OF NITRIC OXIDE FROM AUTOMOTIVE EXHAUST GASES" NIIMI,I.,MORITA,A.,MENOTO,Y.,SATO,M. GER. OFFEN. 2306785 (C 22C), AUG. 23, 1973
	0230N		"CHROMIUM OXIDE-IRON OXIDE-NICKEL OXIDE CATALYSTS FOR TREATMENT OF AUTOMOTIVE EXHAUST GASES" OKUYAMA,T.,SANO,M.,MINE,J. GER. OFFEN. 2308789 (B01J), AUG. 30,1973
	0251N		"STUDY OF CATALYTIC CONTROL OF EXHAUST EMISSIONS FOR OTTO CYCLE ENGINES" YOLLES,R.S.,WISE,H.,BERRIMAN,L.P. STANFORD RESEARCH INSITIUTE, FINAL REPORT, IRVINE, CA., APR. 1970
	0252N		"CATALYSTS FOR AUTOMOTIVE POLLUTION CONTROL DFVICES" NOBE,K.,BAUERLE,G.L. FINAL REPORT, SCHOOL OF ENGINEERING AND APPLIED SCIENCES, U. C.L.A., SEPT. 1973
	0255N		"NOX REDUCTION CATALYSTS FOR VEHICLE EMISSION CONTROL" MEGUERIAN,G.H.,RADOWSKY,F.W.,HERSCHBERG,E.H.,IANG,C.R.,SCHOC S.A.E. PAPER 720480, MAY 1972
NOBLE-METAL-CAT	0001N		"THE HETEROGENEOUS DECOMPOSITION OF NITRIC OXIDE ON SUPPORTED CATALYSTS" SHELEF,M.,OTTO,K.,GANDHI,H. ATMOSPHERIC ENVIRONMENT,V. 3,1969,P.107-122

NOR F-METAL-CAT

CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
NOBLE-METAL-CAT	0003N		"EFFECT OF CATALYTIC CONVERTERS ON AUTOMOTIVE AMMONIA EMISSIONS" HUNTER, J.E. PAPER PRESENTED AT CENTRAL STATES SECTION, COMBUSTION INSTITUTE, ANN ARBOR, MICH., MAR. 1971, GMR-1061, 12P.
	0004N		"CATALYTIC REDUCTION OF NITROGEN DIOXIDE WITH HYDROGEN" AYEN, R.J., AMIRNAZMI, A. A.I.C.H.E. CLEVELAND MEETING, MAY 1969, 30P.
	0009N		"APPEARANCE OF N ₂ O IN THE CATALYTIC REDUCTION OF NO BY CO" SHELEF, M., OTTO, K. JOURNAL OF CATALYSTS, V.10, 1968, P.408-413
	0011N		"SELECTIVE CATALYTIC REACTION OF HYDROGEN WITH NITRIC OXIDE IN THE PRESENCE OF OXYGEN" JONES, J.H., ET AL. ENVIRONMENTAL SCIENCE AND TECHNOLOGY, SEP. 1971, P.790-798
	0012N		"NITRIC ACID PLANT FUME ABATERS" REED, R.M., HARVIN, R.L. CHEMICAL ENGINEERING PROGRESS, V.68, NO.4, APR. 1972, P.78-79
	0013N		"AMMONIA INTERMEDIACY AS A BASIS FOR CATALYST SELECTION FOR NITRIC OXIDE REDUCTION" KLIMISCH, R.L., TAYLOR, K.C. ENVIRONMENTAL SCIENCE AND TECHNOLOGY, V.7, NO.2, FEB. 1972, P.127-131
	0015N		"CATALYTIC REDUCTION OF WASTE NITROGEN OXIDES" MARKVART, M., POUR, V. INTERNATIONAL CHEMICAL ENGINEERING, V.8, NO.2, APR. 1968, P.261-267

CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
NOBLE-METAL-CAT	0016N		"CATALYTIC REDUCTION OF NITRIC OXIDE WITH CARBON MONOXIDE" BAUERLE,G.L.,SFRVICE,G.R.,NOBE,K. I AND EC PRODUCT RESEARCH AND DEVELOPMENT,V.11,NO.1,MAR. 1972,P.54-58
	0030N		"STUDIES ON A NEW METHOD OF SIMULTANEOUSLY REMOVING SULFUR DIOXIDE AND OXIDES OF NITROGEN FROM COMBUSTION GASES" RYASON,P.R.,HARKINS,J. JOURNAL OF THE AIR POLLUTION CONTROL ASSOCIATION,V.17,NO.12, DEC. 1967,P.796-799
	0032N		"CATALYTIC REMOVAL OF NITROGEN OXIDES FROM EXHAUST GASES OF NITRIC ACID PLANTS" VAN DER DRIFT,J. CHEM. TECH,V24,NO.10,1969,P.301-305(NETH.)
	0033N		"INCREASING RELIABILITY OF PLATINUM CATALYST SYSTEMS" MATTHEY BISHOP INC. AUTOMOTIVE ENGINEERING,V.80,NO.12,DEC. 1972,P.11
	0036N		"CATALYTIC PURIFICATION OF TAIL GAS" GILLESPIE,G.R.,BOYUM,A.A.,COLLINS,M.F. CHEMICAL ENGINEERING PROGRESS,V.68,NO.4,APR. 1972,P.72-77
	0039N		"PROCESS FOR CATALYTICALLY REDUCING NITROGEN OXIDES IN INDUSTRIAL STACK GASES" CHILDERS,E.,ELLIS,C.W.,RYAN,D.J. U.S. PATENT 2,910,343,OCT. 27,1959,7P.
	0048N		"INTERACTION OF NITRIC OXIDE, NITROGEN, AND OXYGEN WITH RHENIUM" TAMURA,T.,HAMAMURA,T. MEM. FAC. IND. ARTS,KYOTO TECH. UNIV.,SCI. TECHNOI.,1971,V. 20,P.55-70(ENG.)

CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
NOBLE-METAL-CAT	0064N		"METHOD OF TREATING EXHAUST GASES OF INTERNAL COMBUSTION ENGINES" GROSS,G.P.,ET AL. U.S. PATENT 3,370,914,FEB. 27,1968,27P.
	0066N		"SELECTIVE REDUCTION OF NITROGEN OXIDES WITH AMMONIA" MARKVART,M.POUR,V. CHEM. PRUMYSL (PRAGUE),V.19,NO.1,P.8-12,1969 (CZECH.)
	0067N		"THE CATALYTIC NITRIC OXIDE REDUCTION AND AMMONIA OXIDATION (IV)" ADRUSOW,L. CHEM. BER.,V.60,P.536-540,1927 (GERMAN)
	0071N		"A NEW FAMILY OF CATALYSTS FOR NITRIC ACID TAIL GASES" ANDERSEN,H.C.,ROMEO,P.L.,GREEN,W.J. NITROGEN,NO. 50,P.33-36,NOV./DEC. 1967
	0073N		"METHOD OF REMOVING NITROGEN OXIDES FROM GASES" CHILDERS,E.,ELLIS,C.W.,RYAN,D.J. U.S. PATENT 3,125,408,MAR. 17,1964
	0074N		"METHOD OF REMOVING NITROGEN OXIDES FROM GASES" COHN,J.G.E. U.S. PATENT 3,118,727,JAN. 21,1964,4P.
	0078N		"A SOLID CHEMICAL AIR GENERATOR" PETERS,G.H.,AKER,J.E.,MORELLO,E.F. AMOCO CHEMICALS CORP.,SEYMOUR,IND.,PROPELLANTS DEV.,REPT. NO . AMRL-TDR-64-71,DSEPT. 1964,55P.

CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
NOBLE-METAL-CAT	0081N		"CATALYTIC DECOMPOSITION OF NITRIC OXIDE" SAKAIDA,R.R.,RINDFR,R.G.,WANG,U.L.,CORCORAN,W..J. JOURNAL OF AMER. INST. OF CHEM. ENG.,V.7,NO.4,P.658-663,DEC. 1961
	0082N		"CATALYTIC AFTERBURNING OF ORGANIC AIR POLLUTANTS" BETZ,E.C.,FEIST,H.J. TECHNIK (BERLIN),V.20,NO.6,P.395-400,JUNE 1965 (GERMAN TR.)
	0083N		"THE CATALYTIC REDUCTION OF NITROUS GASFS DURING THE MANUFACTURE OF NITRIC ACID" FEIST,J. PROCEEDINGS,INTERNATIONAL CLEAN AIR CONGRESS,LONDON,PT. I,19 66,PAPER VI/15,P.199-202
	0084N		"PLATINUM CATALYSTS AND AIR POLLUTION CONTROL" HUNTER,J.B. S. AFRICAN MINING ENG. J.,1968,P.438-440,FEB. 23,1968
	0086N		"CATALYST SYSTEM MORPHOLOGY AND DESIGN" DWYER,F.G. PROCEEDINGS,FIRST NATL. SYMP. ON HETEROGENEOUS CATALYSIS FOR CONTROL OF AIR POLLUTION,PHILADELPHIA,NOV. 1968,P.73-86
	0087N		"PURIFICATION OF NITROGEN OF EXHAUST GAS IN THE PRODUCTION OF WEAK NITRIC ACID FOR THE SYNTHESIS OF AMMONIA" NABIYEW,M.K.,ET AL. DOKL. AKAD. NAUK UZ. SSR,V.20,NO.11,P.17-20,1963 (RUSSIAN)
	0089N		"THE KINETICS OF THE REACTION BETWEEN AMMONIA AND NITRIC OXIDE ON THE SURFACE OF A PLATINUM FILAMENT" MICHAILOVA,E.A. ACTA PHYSICOCHEM. USSR,V.10,NO.5,P.653-676,1939

CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC NO	TITLE
NOBLE-METAL-CAT	0091N	"CLEANING OF INDUSTRIAL GASES WITH PRECIOUS METAL CATALYSTS" ANDERSEN, H.C. DECHEMA MONOGRAPH., V.40, P.325-333, 1962 (GERMAN)
	0097N	"NATURAL-GAS CATALYTIC REDUCTION OF NITRIC OXIDE TAIL GASES FROM NITRIC ACID PRODUCTION" TIKHONENKO, A.D., NABIEV, M.N. UZBESK. KHIM. ZH., V.11, NO.4, P.6-9, 1967 (RUSSIAN)
	0099N	"ELIMINATION OF NITROUS GAS EMISSION BY CATALYTIC REDUCTION" JEITNER, O., KONIG, K. CHEM. TECH. (BERLIN), V.19, NO.3, P.166-169, MAR. 1967 (GERMAN)
	0102N	"PLATINUM CATALYSTS FOR THE CONTROL OF AIR POLLUTION; A TAIL GAS REDUCTION SYSTEM FOR NITRIC ACID PLANTS" HUNTER, J.B. PLATINUM METALS REV., V. 9-12, P.2-6, 1965-1968
	0103N	"CATALYTIC DECOMPOSITION OF NO IN FLUE GAS (FINAL REPT.)" NUZUM, H.K., WALLING, J.F. BATTELLE MEMORIAL INST., COLUMBUS, OHIO, GRANT 5 R01 AP00577, 41 P., MAY 31, 1969
	0110N	"TECHNIQUES FOR CONTROLLING THE OXIDES OF NITROGEN" HARDISON, L.C. JOURNAL AIR POLLUTION CONTROL ASSOC., V.20, NO.6, P.377-382, JUN E 1970
	0112N	"UTILIZATION OF CATALYST IN AIR POLLUTION CONTROL" YAMANAKA, T. KAGAKU KOGYO (TOKYO), V.22, NO.3, P.102-108, MAR. 1971

CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
NOBLE-METAL-CAT	0114N		"STUDIES OF SURFACE REACTIONS OF NO BY ISOTOPE LABELING; II, DEUTERIUM KINETIC ISOTOPE EFFECT IN THE AMMONIA-NITRIC OXIDE REACTION OF A SUPPORTED PLATINUM CATALYST" OTTO,K.,SHELEF,M.,KUMMER,J.T. JOURNAL OF PHYSICAL CHEMISTRY,V.75,NO.7,P.875-879,APR. 1971
	0118N		"PROCESS FOR THE OXIDATION OF NITRIC OXIDE" ANDERSEN,H.C.,HALEY,A.J. U.S. PATENT 3,079,232,FEB. 26,1963,4P.
	0121N		"CATALYSTS FOR PURIFICATION OF AUTOMOBILE EXHAUST GAS; (II),CONTACT REDUCTION BY CO AND C3H8 OF NO" NAKAJIMA,F.,TAKEUCHI,M. PREPRINT, JAPAN CHEMICAL SOCIETY,TOLYO,1P.,1971 (JAPANESE)
	0122N		"ON REMOVAL OF NO GAS GENERATED IN MEDIUM AND SMALL SIZE CHEMICAL FACTORIES" OYA,S.,OYA,N. PREPRINT, SAFETY ENGINEERING SOCIETY OF JAPAN. TOLYO,4P.,197 0 (JAPANESE)
	0123N		"NITROGEN OXIDE POLLUTION; NITRIC ACID PLANT POLLUTANTS" NEWMAN,D.J. CHEMICAL ENGINEERING PROGRESS,V.67,NO.2,P.79-84,FEB. 1971
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
NOBLE-METAL-CAT	0132N		"CATALYTIC REDUCTION OF OXIDES OF NITROGEN (FINAL REPT.)" PETERSEN, E.E., BELL, A.T. UNIV. OF CALIF., BERKELEY, DEPT. OF CHEMICAL ENGINEERING, GRANT AP-00387, 6P., 1970
	0135N		"METHOD OF REMOVING NITROGEN OXIDES FROM GASES" KANDELL, P., NEMES, G. U.S. PATENT 3,567,367, MAR. 2, 1971, 3P.
	0136N		"EXHAUST GAS PURIFICATION" JONES, J.H., WEAVER, E.F. U.S. PATENT 3,599,427, AUG. 17, 1971, 6P.
	0137N		"CATALYSTS FOR PURIFICATION OF WASTE GASES CONTAINING OXIDES OF NITROGEN" HINDIN, S.G., DETTLING, J.C. U.S. PATENT 3,615,166, OCT. 26, 1971, 5P.
	0141N		"CATALYTIC DECOMPOSITION OF NITROGEN DIOXIDE ON A HEATED PLATINUM WIRE" ONG, B.G., MASON, D.M. INDUSTRIAL ENGINEERING CHEMISTRY FUNDAMENTALS, V.11, NO.2, P.16 9-174, MAY 1972
	0145N		"AUTOMOTIVE EXHAUST GAS PURIFICATION CATALYST" TODO, M. SEKIYU TO SEKIYU KAGAKU (PETROL. PETROCHEM.), V.15, NO.7, P.103 -108, 1971 (JAPANESE)
	0149N		"INVESTIGATION ON CATALYTIC REDUCTION OF EXISTING NITRIC OXIDES BY AMMONIA" GAJEWSKI, A., KUPIEK, S., ZYGADLO, J. PRZEMYSŁ CHEM., V.51, NO.1, P.44-46, 1971 (POLISH)

CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
NOBLE-METAL-CAT	0150N		"THE CATALYTIC OXIDATION OF AMMONIA INTO NITRIC ACID" NEUMANN,B.,ROSE,H. A. ANGEW. CHEM (WEINHEIM),V.1,P.45-48,51-55,FFR. 24,1920 (TRANSL. FROM GERMAN)
	0153N		"THERMAL AND CATALYTIC WASTE GAS CLEANING INCLUDING THE WET NITROGEN OXIDE PROCEDURES" BRAND,H. CHEM. TECH. (BERLIN),V.1,NO.5,P.224-225,MAY 1972 (GERMAN)
	0157N		"RAPID, CONTINUOUS CONVERSION OF NO TO N2 PLUS H2O" ALEI,M. LOS ALAMOS SCIENTIFIC LAB.,N. MEX.,REPT. LA-4904,UC-4,5P.,APR. 1972
	0159N		"THE EFFECT OF GAS TEMPERATURE ON THE RATE OF A HETEROGENEOUS REACTION; A PARASITE EFFECT OCCURRING DURING THE NITROUS OXIDE DECOMPOSITION OVER PLATINUM IN A CLOSED REACTOR" KLOSTER,J.P.,LINTZ,H. Z. PHYSIK. CHEM. NEUE FOLGE (FRANKFURT),V.78(3/4),P.215-218, MAY 1972 (GERMAN)
	0164N		"CATALYTIC REDUCTION OF WASTE NITROGEN OXIDES" JAROS,S.,KRIZEK,J. CHEM. PRUMYSL (PRAGUE),17/42(11),P.581-586,1967 (CZECH.)
	0173N		"FIAT STATUS REPORT ON LOW EMISSION CONCEPT VEHICLES" POLLONE,C. S.A.E. PUB.,NO.370;1-16,MAY 1972 (PRESENTED AT THE NATIONAL AUTOMOBILE ENGINEERING MEETING,DETROIT,MAY 22-26,1972,PAPER NO. 720101)

CATALYTIC NOx
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
NOBLE-METAL-CAT	0175N		"THE INFLUENCE OF OXYGEN ON THE CATALYTIC REDUCTION OF NITRIC OXIDE BY AMMONIA" MARKVART,M.,POUR,V. J. CATALYSIS,7,P.279-281,1967
	0177N		"AMMONIA FORMATION IN CATALYTIC REDUCTION OF NITRIC OXIDE BY MOLECULAR HYDROGEN" SHELEF,M.,GANDHI,H.S. I AND EC PRODUCT RESEARCH AND DEVELOPMENT,V. 11,DEC. 1972,P. 393-396
	0178N		"SYSTEMS STUDY OF NITROGEN OXIDE CONTROL METHODS FOR STATIONARY SOURCES" BARTOK,W.,ET AL. ESSO RESEARCH AND ENGINEERING CO.,FINAL RPT.,V. 2,NO. GR-2-M PS-69,NOV. 20,1969 (PB 192-789)
	0180N		"OXYGEN INHIBITION IN THE DECOMPOSITION OF NO ON METAL OXIDES AND PLATINUM" AMIRNAZMI,A.,BENSON,J.E.,BOUDART,M. JOURNAL OF CATALYSIS,30,1973,P.55-65
	0181N		"CATALYTIC REMOVAL OF AMMONIA AND NITROGEN OXIDES FROM SPACECABIN ATMOSPHERES" GULLY,A.J.,ET AL. TEXAS TECH. UNIV.,LUBBOCK,NASA CONTRACT REP-2132,FEB 1973,17 OP.
	0182N		"POLLUTION FROM NITRIC ACID PLANTS; PURIFICATION OF TAIL GAS USING PLATINUM CATALYSTS" SEARLES,R.A. PLATINUM MET. REV.,V.17,NO.2,APR. 1973,P.57-63

CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
NOBLE-METAL-CAT	0191N		"AMMONIA FORMATION IN THE NITRIC OXIDE-METHANE REACTION" VARTULI, J.C., GONZALEZ, R.D. IND. ENG. CHEM. PROD. RES. DEVELOP., V. 12, NO. 3, 1973, P. 171-175
	0195N		"CATALYTIC PURIFICATION OF WASTE GASES FROM NITRIC ACID MANUFACTURE" COLLINS, M.F., MICHALEK, R. GER. OFFEN. 2255732 (C 01B), MAY 24, 1973, 16P.
	0196N		"ISOCYANATE INTERMEDIATES IN THE REACTION NO-CO OVER A PT/AL ₂ O ₃ CATALYST" UNLAND, M.L. JOURNAL OF PHYSICAL CHEMISTRY, V. 77, NO. 16, 1973, P. 1952-1956
	0197N		"THE CATALYTIC REDUCTION OF NITRIC OXIDE OVER SUPPORTED RUTHENIUM CATALYSTS" TAYLOR, K., KLIMISCH, R.L. JOURNAL OF CATALYSIS, V. 30, NO. 3, 1973, P. 478-484
	0199N		"PALLADIUM-PLATINUM CATALYSTS FOR DECOMPOSITION OF NITROGEN OXIDES" TSUNOI, K., TADA, K. JAPAN. KOKAI 73 15785, FEB. 28, 1973, 3P.
	0200N		"REDUCTION OF NITROGEN OXIDE IN EXHAUST GAS FROM INTERNAL COMBUSTION ENGINES" HORIE, K., YAMAUCHI, S., HARA, J., OHHARA, T. JAPAN. KOKAI 73 42989, JUNE 21, 1973, 6P.

CATALYTIC NO_x
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
NOBLE-METAL-CAT	0203N		"THE ADSORPTION OF NITRIC OXIDE ON PLATINUM BLACK" OTTO,K.,SHELEF,M. JOURNAL OF CATALYSIS,V. 29,1973,P.138-145
	0205N		"A LOW TEMPERATURE CATALYTIC APPROACH TO NO(X) CONTROL" LAWSON,A. JOURNAL OF CATALYSIS,24,1972,P.297-305
	0207N		"ADSORPTIVITIES AND REACTIVITIES OF LOWER HYDROCARBONS DURING OXIDATION ON A SILVER CATALYST BY NITRIC OXIDE" BELOUSOV,V.M.,MULIK,I.Y.,RUBANIK,M.Y. TRANSLATED FROM KINETIKA I KATALIZ,V. 10,NO. 4,JULY-AUG. 1969,P.841-846
	0208N		"REACTION OF NITRIC OXIDE WITH HYDROGEN ON PLATINUM WHICH HAS BEEN PURIFIED UNDER SUPER-HIGH VACUUM" TRETYAKOV,I.I.,KORCHAK,V.N.,SHUR,B.R. TRANSLATED FROM KINETIKA KATALIZ,V. 13,NO.2,MAR.-APR. 1972,P.512-514
	0209N		"HNO AS AN INTERMEDIATE IN THE CATALYTIC REDUCTION OF NITRIC OXIDE" GONZALEZ,R.D.,AUDETTE,D.E. JOURNAL OF CATALYSIS,V. 17,NO.1,1970,P.116-118
	0210N		"CATALYTIC TREATMENT OF NITRIC ACID PLANT TAIL GAS" ANDERSEN,H.C.,GREEN,W.J.,STEELE,D.R. INDUSTRIAL AND ENGINEERING CHEMISTRY,V. 53,NO. 3,MAR. 1961,P.199-204

CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
NOBLE-METAL-CAT	0211N		"STUDIES OF SURFACE REACTIONS BY NITROGEN - 15 ISOTOPE LABELING I. THE REACTION BETWEEN NITRIC OXIDE AND AMMONIA OVER SUPPORTED PLATINUM" OTTO,K.,SHELEF,M.,KUMMER,J.T. J. PHYS. CHEM.,74(13); 2690-2698,1970
	0212N		"STUDIES OF SURFACE REACTIONS OF NITRIC OXIDE BY ISOTOPE LABELING. IV, REDUCTION OF NITRIC OXIDE BY AMMONIA AND HYDROGEN OVER SUPPORTED RUTHENIUM" OTTO,K.,SHELEF,M. J. PHYS. CHEM.,85(5-6),308-322,1973
	0217N		"EXPERIMENTS FOR THE PRODUCTION OF INERT GAS FROM THE WASTE GASES OF A NITRIC ACID PLANT" PORZEL,W.,WOLFGANG,K. CHEM. TECH., 23(9); 537-539, SEPT. 1971
	0219N		"NITROGEN OXIDE POLLUTION; PROCESSING NITRIC ACID TAIL GAS" ADLHART,O.J.,HINDIN,S.G.,KENSON,R.F. CHEM. ENG. PROGR., 67(2); 73-78, 1971
	0220N		"POWER AND INDUSTRY; CONTROL OF NITROGEN OXIDE EMISSIONS" PERRINE,R.L.,LIMIN,H. PROJECT CLEAN AIR, CALIF. UNIV. BERKELEY, TASK FORCE 5, 1(9), SEPT. 1970
	0221N		"UTILIZATION OF TIED NITROGEN DURING CATALYTIC REDUCTION OF NITROGEN OXIDE" JAROS,S.,KRIZEK,J.,SFBK,J. CZECH. PAT. 124669, OCT. 15, 1967

CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITIF
NOBLE-METAL-CAT	0222N		"METHOD OF REMOVING SULFUR DIOXIDE AND NITROGEN OXIDES FROM GASES" RYASON,P.R. U.S. PAT. 3,454,355, JULY 8, 1969
	0232N		"STABILITY OF NITRIC OXIDE OVER A LONG TIME INTERVAL" HOWARD,C.S.,DANIELS,G. J. PHYS. CHEM., 62(3); 360-1, 1958
	0233N		"THE CATALYTIC DECOMPOSITION OF NITRIC OXIDE AT THE SURFACE OF PLATINUM" GREEN,T.E.,HINSHLWOOD,C.N. J. CHEM. SOC., PP. 1709-13, 1926
	0234N		"DECOMPOSITION OF NITRIC OXIDE BY PLATINUM AT ELEVATED TEMPERATURES AND ITS RETARDATION BY OXYGEN" BACHMAN,P.W.,TAYLOR,G.G. J. PHYS. CHEM., 33; 447-55, 1929
	0238N		"KINETICS OF DECOMPOSITION OF NITRIC OXIDE" KAUFMAN,F.,KELSO,J.R. J. CHEM. PHYSICS, 21(4); 751, 1953
	0239N		"KINETICS OF THE DECOMPOSITION OF NITRIC OXIDE THE THE RANGE 700-1800 DEG." YUAN,E.L.,SLAUGHTER,J.I.,KOERNER,W.E.,DANIELS,F. J. PHYS. CHEM., 63(6); 952-6, 1959
	0240N		"CATALYTIC DECOMPOSITION OF NITRIC OXIDE" RIESZ,C.H.,MORRITZ,F.L.,FRANSON,K.D. AIR POLLUTION FOUNDATION REPORT, NO. 20, 22P., 1957

CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
NOBLE-METAL-CAT	0244N		"CATALYSIS" LAIDLER,K.J. REINHOLD (P.H. EMMET ED.), NEW YORK, V. 1, 1954, P. 149
	0245N		"LA DECOMPOSITION DU BIOXYDE D AZOTE PAR LES CATALYSEURS DE PLATINE" ZAWADZKI,J.,PERLINSKI,G. COMPTES RENDUS, 198; 260, 1934
	0247N		"SECONDARY ION EMISSION STUDY OF THE CATALYTIC REACTIONS BETWEEN AMMONIA AND NITROUS OXIDE AND THE DECOMPOSITION OF NITROUS OXIDE ON PLATINUM" FOGEL,Y,M,NADYKTO,P.T.,SHVACHKO,V.I.,RYBAIKO,V.F.,KOROBHANS KINETIKA I KATALIZ, 5(5); 942-944, 1964
	0248N		"CATALYTIC REDUCTION OF NOX - PILOT PLANT OPERATION" ENVIRONICS INC. ENVIRONICS INC., HUNTINGTON BEACH, CA., PROGRESS REPORT, JUL Y 1973
	0252N		"CATALYSTS FOR AUTOMOTIVE POLLUTION CONTROL DEVICES" NOBE,K.,BAUERLE,G.L. FINAL REPORT, SCHOOL OF ENGINEERING AND APPLIED SCIENCES, U. C.L.A., SEPT. 1973
	0256N		"NITRIC OXIDE REDUCTION WITH H2 ON MIXED METAL OXIDE CATALYSTS" BAUERLE,G.L.,NOBE,K. IN PRESS, 1974

CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
NOBLE-METAL-CAT	0258N		"AMMONIA FORMATION IN THE CATALYTIC REDUCTION OF NITRIC OXIDE. III. THE ROLE OF WATER GAS SHIFT, REDUCTION BY HYDROCARBONS AND STEAM REFORMING" SHELEF, M., GANDHI, H. S. IND. ENG. CHEM., PROD. RES. DEVELOP., 13(1); 80-85, 1974
	0259N		"PROCESSING NITRIC ACID TAIL GAS" ADLHART, O. J., HINDIN, S. G., KENSUN, R. F. CHEM. ENG. PROGRESS, 67(2), 73-78
OTHER-NOX-CAT	0007N		"THE CATALYTIC DECOMPOSITION OF NITRIC OXIDE BY METALLIC OXIDES" WINTER, E. R. S. JOURNAL OF CATALYSTS, V. 22, 1971, P. 158-170
	0008N		"THE HETEROGENEOUS DECOMPOSITION OF NITRIC OXIDE WITH OXIDE CATALYSTS" FRASER, J. M., DANIELS, F. JOURNAL OF PHYSICAL CHEMISTRY, V. 62, FEB. 1958, P. 215-222
	0018N		"PROCESS FOR REMOVING NITRIC OXIDE FROM GASEOUS MIXTURES" BAUM, W. H., GRIST, J. G., NAGLE, F. V. U.S. PATENT 3,428,414, FEB. 18, 1969, 6P.
	0031N		"CATALYST FOR COMPLETE REMOVAL OF OXIDES OF NITROGEN FROM AUTOMOBILE EXHAUST" KUSHIRO, I., ET AL. SEIDEI DAIGAKU KOGAKUBU KAGAKU HOKOKU, V. 7, 1969, P. 545-546 (JAP AN)

CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
OTHER-NOX-CAT	0041N		"EFFICIENT AND ECONOMICAL DECOMPOSITION OF OXIDES OF NITROGEN" HARRIS,S.W.,MORFELLO,F.F.,PETERS,G.H. U.S. PATENT 3,459,494,AUG. 5,1969,2P.
	0043N		"CATALYST FOR NITROGEN OXIDE REDUCTION" KLIMISCH,R.L. U.S. PATENT 3,674,423,JULY 4,1972,2P.
	0068N		"A STUDY OF THE REACTION BETWEEN NITRIC OXIDE AND HYDROGEN SULPHIDE" PIERCE,J.A. JOURNAL OF PHYSICAL CHEMISTRY,V.33,NO.1,P.22-36,JAN. 1929
	0069N		"CATALYTIC DECOMPOSITION OF NITROGEN DIOXIDE" NOBE,K.,WIKSTROM,L.L. PREPRINT,AM. CHEM. SOC.,PITTSBURGH,DOV. WATER,AIR WASTE CHEM .P.268-273,1963
	0070N		"SORPTION AND REACTIVITY OF NITROUS OXIDE AND NITRIC OXIDE IN CRYSTALLINE AND AMORPHOUS SILICEOUS SORBENTS" ADDISON,W.E.,BARRER,R.M. JOURNAL OF CHEM. SOC.,PT. 1,P.757-769,1955
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	0085N		"CATALYTIC OXIDATION OF NITRIC OXIDE; PT. 1" KURIN,N.P.,BLOKH,I.O. ZH. PRIKL. KHIM.,V.11,NO.5,P.734-749,1938 (RUSSIAN)

CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
OTHER-NOX-CAT	0125N		"METHOD TO MANUFACTURE VAPOR-PHASE OXIDATION CATALYST FOR SULFUROUS ACID GAS" NINOMIYA,N.,ICHIKAWA,H.,NISHINO,H. JAPAN. PATENT SHO 46-7571,FEB. 25,1971,2P.
	0154N		"CATALYTIC REMOVAL OF NOX IN GASES" INOUE,T. NENRYO KYOKAISHI (J. FUEL SOC. JAPAN, TOKYO),v.51,NO.1,P.19-24,JAN. 1972 (JAPANESE)
	0193N		"CATALYSTS FOR EXHAUST GAS TREATMENT" OKUYAMA,T.,SANO,M.,MANABE,S.,IWABUCHI,H. GER. OFFEN. 2252402 (B 01J, F 01N),MAY 30,1973,36P.
	0214N		"METHOD OF NITROGEN OXIDES REMOVAL" ENDO,A.,TETSU,T.,KFI70,M. JAPAN, PAT. SHO 47-50982, 3P., DEC. 21,1972
	0232N		"STABILITY OF NITRIC OXIDE OVER A LONG TIME INTERVAL" HOWARD,C.S.,DANIFLS,G. J. PHYS. CHEM., 62(3); 360-1, 1958
	0236N		"KINETICS OF DECOMPOSITION OF NITRIC OXIDE AT FLEVATED TEMPERATURES. I. RATE MEASUREMENTS IN A QUARTZ VESSEL" WISE,H.,FRECH,M.F. J. CHEM. PHYSICS, 20(1); 22-4, 1952
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
OTHER-NOX-CAT	0240N		"CATALYTIC DECOMPOSITION OF NITRIC OXIDE" RIESZ,C.H.,MORRITZ,F.L.,FRANSON,K.D. AIR POLLUTION FOUNDATION REPORT, NO. 20, 22P., 1957
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	0252N		"CATALYSTS FOR AUTOMOTIVE POLLUTION CONTROL DEVICES" NOBF,K.,BAUERLE,G.L. FINAL REPORT, SCHOOL OF ENGINEERING AND APPLIED SCIENCES, U. C.L.A., SEPT. 1973
	0254N		"DEVELOPMENT OF A METHOD FOR THE ANALYSIS OF NO2 AND NH3 BY NO-MEASURING INSTRUMENTS" BREITENBACH,L.P.,SHELEF,M. J. OF THE AIR POLLUTION CONTROL ASSOC., 23(2): 128-131, 1973
	0256N		"NITRIC OXIDE REDUCTION WITH H2 ON MIXED METAL OXIDE CATALYSTS" BAUERLE,G.L.,NOBF,K. IN PRESS, 1974
OXIDN-W/OTHER	0018N		"PROCESS FOR REMOVING NITRIC OXIDE FROM GASFOUS MIXTURES" BAUM,W.H.,GRIST,J.G.,NAGLE,E.V. U.S. PATENT 3,428,414,FEB. 18,1969,6P.

CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC NO	TITLE
OXIDN-W/O2	0016N	"CATALYTIC REDUCTION OF NITRIC OXIDE WITH CARBON MONOXIDE" BAUERLE,G.L.,SERVICE,G.R.,NOBE,K. I AND EC PRODUCT RESEARCH AND DEVELOPMENT,V.11,NO.1,MAR. 1972,P.54-58
PATENTS	0041N	"EFFICIENT AND ECONOMICAL DECOMPOSITION OF OXIDES OF NITROGEN" HARRIS,S.W.,MORELLO,F.F.,PETERS,G.H. U.S. PATENT 3,459,494,AUG. 5,1969,2P.
	0043N	"CATALYST FOR NITROGEN OXIDE REDUCTION" KLIMISCH,R.L. U.S. PATENT 3,674,423,JULY 4,1972,2P.
	0052N	"ENGINE EXHAUST EMISSION CONTROL SYSTEM" TOURTELOTTE,J.F.,NEGRA,J.A.,ET AL. U.S. PATENT 3,699,683,OCT. 24,1972,3P.
	0054N	"CATALYST FOR TREATING EXHAUST GAS FROM INTERNAL COMBUSTION ENGINES" NEGRA,J.S.,WARSHAW,A. U.S. PATENT 3,701,822,OCT. 31,1972,3P.
	0055N	"CATALYSTS FOR REMOVAL OF SMOG-FORMING COMPONENTS FROM EXHAUST GASES" CLIFFORD,A.F.,JAFFE,J. U.S. PATENT 3,407,030,OCT. 22,1968,8P.
	0057N	"PROCESS FOR CATALYTICALLY TREATING EXHAUST GASES" ROTH,J.F. U.S. PATENT 3,493,325,FEB. 3,1970,9P.

CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
PATENTS	0058N		"METHOD OF DECOMPOSING NITROGEN OXIDES" STEPHENS,R.E. U.S. PATENT 3,545,917,DEC. 8,1970,6P.
	0059N		"CATALYST COMPOSITION" STEPHENS,R.E. U.S. PATENT 3,524,721,AUG. 18,1970,6P.
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	0061N		"PROCESS FOR REMOVING NITROGEN WITH COBALT-RARE EARTH AND GROUP VI CATALYST" KOVACH,S.M.,ROGERS,E.S. U.S. PATENT 3,345,286,OCT. 3,1967,8P.
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	0063N		"METHOD OF DECOMPOSING NITROGEN OXIDES" STEPHENS,R.E. U.S. PATENT 3,552,913,JAN. 5,1971,4P.
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
PATENTS	0073N		"METHOD OF REMOVING NITROGEN OXIDES FROM GASES" CHILDERS,E.,ELLIS,C.W.,RYAN,D.J. U.S. PATENT 3,125,408,MAR. 17,1964
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	0090N		"METHOD FOR REMOVING NITROGEN OXIDES FROM GASES THROUGH CATALYTIC REDUCTION OF THESE SUBSTANCES TO NITROGEN" SCHMIDT,K. WEST GERMAN PATENT 1,259,298,JAN. 25,1968,2P. (GERMAN)
	0101N		"CATALYTIC PURIFICATION TREATMENT OF EXHAUST GAS" KEARBY,K.K.,LAND,R.J. U.S. PATENT 3,476,508,NOV. 4,1969,4P.
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	0171N		"CATALYTIC PURIFICATION OF COMBUSTION GASES" HISADA,S. GER. PATENT 2,119,897,NOV. 18,1971,11P. (GERMAN)
	0183N		"REDUCTION CATALYST FOR NITRIC OXIDE IN EXHAUST AND FLUE GASES" STENZEL,J.,HARNISCH,H.,KNAPSACK,A.G. GER. OFFEN. 2165550 (B 01J),JULY 5,1973,12P.

CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
PATENTS		0184N	"REDUCTION OF NITROGEN OXIDE IN EXHAUST AND WASTE GASES" STENZEL, J., KNAPSACK, A. G. GER. OFFEN. 2165548 (B 01D), JULY 5, 1973, 15P.
		0194N	"OXIDATION OF NITROGEN MONOXIDE" TAKEYAMA, T., ENDO, R., MASUDA, K. JAPAN. KOKAI 73 32795 (15 822), MAY 2, 1973, 3P.
		0195N	"CATALYTIC PURIFICATION OF WASTE GASES FROM NITRIC ACID MANUFACTURE" COLLINS, M. F., MICHALFK, R. GER. OFFEN. 2255732 (C 01B), MAY 24, 1973, 16P.
		0198N	"CONTROL OF NITROGEN OXIDES EMISSION FROM ENGINES" TOURTELLOTEE, J. F., NEGRA, J. S., WARSHAW, A., VILIFRISHER, J. U.S. 3739583, JUNE 19, 1973, 5P.
		0199N	"PALLADIUM-PLATINUM CATALYSTS FOR DECOMPOSITION OF NITROGEN OXIDES" TSUNOI, K., TADA, K. JAPAN. KOKAI 73 15785, FEB. 28, 1973, 3P.
		0200N	"REDUCTION OF NITROGEN OXIDE IN EXHAUST GAS FROM INTERNAL COMBUSTION ENGINES" HORIE, K., YAMAUCHI, S., HARA, J., OHHARA, T. JAPAN. KOKAI 73 42989, JUNE 21, 1973, 6P.
		0201N	"CATALYSTS FOR THE REDUCTION OF NITROGEN OXIDES" GERHARD, M., SIEPMANN, R., KUMMER, F. GER. OFFEN. 2151958 (B 01J), APR. 26, 1973, 10P.

CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
PATENTS		0202N	"CATALYST FOR REDUCING NITROGEN OXIDES" KOOKI,Y.,OKAMOTO,O.,KAWAKAMI,A.,WATANABE,S. JAPAN. KOKAI 73 28391 (13(9)G11),APR. 14,1973.3P.
		0214N	"METHOD OF NITROGEN OXIDES REMOVAL" ENDO,A.,TETSU,T.,KEI70,M. JAPAN, PAT. SHO 47-50982, 3P., DEC. 21,1972
		0215N	"METHOD FOR REMOVING NITROGEN OXIDES FROM WASTE GASES" ENDO,A.,TETSU,T.,KEI70,M. JAPAN PAT. SHO 47-50981, 3P., DEC. 21, 1972
		0218N	"CONTACT TYPE REMOVAL METHOD FOR NO CONTAINED IN GAS MANUFACTURED FROM COAL, COKE, OR OIL" OKI,T.,TETSU,A.,AKIRA,T.,SHIGERU,H. JAPAN PAT. SHO 46-18383, 4P., MAY 22, 1971
		0221N	"UTILIZATION OF TIED NITROGEN DURING CATALYTIC REDUCTION OF NITROGEN OXIDE" JAROS,S.,KRIZEK,J.,SEBEK,J. CZECH. PAT. 124669, OCT. 15. 1967
		0225N	"COBALT SULFIDE AND NICKEL SULFIDE CATALYSTS FOR REDUCTION OF NITROGEN OXIDES IN EXHAUST GASES" POMOT,J.L.F. GER. OFFEN. 2307342 (B01J), AUG. 30, 1973
		0226N	"CATALYTIC REMOVAL OF NITROGEN OXIDES FROM AUTOMOTIVE EXHAUST GASES" SIMIZU,I.,DAWASAKI,M. JAPAN. KOKAI 73 71366(13(7)A11, 51 D51, 13(9) G3),SEPT. 27, 1973

CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
PATENTS	0227N		"CATALYST FOR WASTE GAS TREATMENT" HOSUDA,H.,KAWAKAMI,A.,OKAMOTO,O.,MIYAMOTO,A. JAPAN. KOKAI 73 55190 (13(9)G11), AUG. 2, 1973
	0228N		"CATALYST FOR REMOVING NITROGEN OXIDES" HASEGA,O.,YOKOTA,S. JAPAN. KOKAI 73 55890 (13(9)G11), AUG. 6, 1973
	0229N		"COPPER-IRON-NICKEL ALLOY CATALYSTS FOR REMOVAL OF NITRIC OXIDE FROM AUTOMOTIVE EXHAUST GASES" NIIMI,I.,MORITA,A.,MENOTO,Y.,SATO,M. GER. OFFEN. 2306785 (C 22C), AUG. 23, 1973
	0230N		"CHROMIUM OXIDE-IRON OXIDE-NICKEL OXIDE CATALYSTS FOR TREATMENT OF AUTOMOTIVE EXHAUST GASES" OKUYAMA,T.,SANO,M.,MINE,J. GER. OFFEN. 2308789 (B01J), AUG. 30, 1973
	0242N		"SELECTIVE REMOVAL OF NITROGEN OXIDES FROM OXYGEN-CONTAINING GASES ESPECIALLY FROM NITRIC ACID PRODUCTI COHN,J.,STEELE,D.R.,ANDERSEN,H.C. U.S. 2,975,025,NOV. 5, 1971
	0250N		"REMOVAL OF NITROGEN OXIDES FROM COMBUSTION GASES" BRENNAN,J.A. U.S. 3,015,369, MAY 23, 1960
POWER-PLANTS	0030N		"STUDIES ON A NEW METHOD OF SIMULTANEOUSLY REMOVING SULFUR DIOXIDE AND OXIDES OF NITROGEN FROM COMBUSTION GASES" RYASON,P.R.,HARKINS,J. JOURNAL OF THE AIR POLLUTION CONTROL ASSOCIATION,V.17,NO.12, DEC. 1967,P.796-799

CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
POWER-PLANTS		0176N	"CATALYTIC REMOVAL OF NITROGEN OXIDES, CARBON MONOXIDE AND HYDROCARBONS FROM COMBUSTION EXHAUST STREAMS" TAYLOR, F.R. FRANKLIN INSTITUTE LABORATORIES, PHILADELPHIA, PA., 1959, 18P.
		0178N	"SYSTEMS STUDY OF NITROGEN OXIDE CONTROL METHODS FOR STATIONARY SOURCES" BARTOK, W., ET AL. FSSO RESEARCH AND ENGINEERING CO., FINAL RPT., V. 2, NO. GR-2-M PS-69, NOV. 20, 1969 (PB 192-789)
		0220N	"POWER AND INDUSTRY; CONTROL OF NITROGEN OXIDE EMISSIONS" PERKINE, R.L., LIMIN, H. PROJECT CLEAN AIR, CALIF. UNIV. BERKELEY, TASK FORCE 5, 1(9) , SEPT. 1970
		0222N	"METHOD OF REMOVING SULFUR DIOXIDE AND NITROGEN OXIDES FROM GASES" RYASON, P.R. U.S. PAT. 3,454,355, JULY 8, 1969
		0248N	"CATALYTIC REDUCTION OF NOX - PILOT PLANT OPERATION" ENVIRONICS INC. ENVIRONICS INC., HUNTINGTON BEACH, CA., PROGRESS REPORT, JULY 1973
RARE-EARTH-CAT		0007N	"THE CATALYTIC DECOMPOSITION OF NITRIC OXIDE BY METALLIC OXIDES" WINTER, E.R.S. JOURNAL OF CATALYSTS, V.22, 1971, P.158-170

CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
RARE-EARTH-CAT	0025N		"TUNGSTEN BRONZES AND MIXED COBALT OXIDES AS POTENTIAL CATALYSTS FOR POLLUTION CONTROL" BAUERLE,G.L.,THOMAS,N.T.,NOBE,K. CHEMICAL ENGINEERING JOURNAL,V.4,1972,P.199-200
	0058N		"METHOD OF DECOMPOSING NITROGEN OXIDES" STEPHENS,R.E. U.S. PATENT 3,545,917,DEC. 8,1970,6P.
	0059N		"CATALYST COMPOSITION" STEPHENS,R.E. U.S. PATENT 3,524,721,AUG. 18,1970,6P.
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	0063N		"METHOD OF DECOMPOSING NITROGEN OXIDES" STEPHENS,R.E. U.S. PATENT 3,552,913,JAN. 5,1971,4P.
	0088N		"THE DECOMPOSITION OF NITROUS OXIDE ON THE RARE EARTH SESQUIOXIDES AND RELATED OXIDES" WINTER,E.R.S. JOURNAL OF CATALYSIS,V.15,NO.2,P.144-152,1969
	0140N		"CATALYTIC CONTROL OF NOX EMISSIONS FROM MOBILE SOURCES (FINAL REPORT)" SEEGALL,M.I.,NAPIER,J.C.,COMPTON,W.A. INTERNATIONAL HARVESTER CO.,SAN DIEGO,CA.,RESEARCH LABS.,REP T. RDR 1700,143P.,DEC. 1971

CATALYTIC NOx
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
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CATALYTIC NO_x
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TIT F
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
REDXN-W/CO	0223N		"CATALYTIC ACTIVITY OF SPINFELS AND THEIR OXIDE CONTENT IN THE REACTION OF NITRIC OXIDE WITH CARBON MONOXIDE" VLADENKI,V.M.,YU7FFOVICH,G.F.,NEPIYUSHCHAYA,R.P. INST. FIZ. KHIM. IM. PISARZHEVSKOGO, KIEV, USSR, KATAL. KATA L. (KAKAA), NO. 10, 81-5, 1973
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
REDXN-W/CO		0230N	"CHROMIUM OXIDE-IRON OXIDE-NICKEL OXIDE CATALYSTS FOR TREATMENT OF AUTOMOTIVE EXHAUST GASES" OKUYAMA,T.,SANO,M.,MINE,J. GER. OFFEN. 2308789 (B01J), AUG. 30,1973
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
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		0097N	"NATURAL-GAS CATALYTIC REDUCTION OF NITRIC OXIDE TAIL GASES FROM NITRIC ACID PRODUCTION" TIKHONENKO,A.D.,NABIEV,M.N. UZBEFSK. KHIM. ZH.,V.11,NO.4,P.6-9,1967 (RUSSIAN)

CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
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		0174N	"CATALYSTS FOR AUTO EXHAUST EMISSION CONTROL " YAMAKI,N.,TSUCHIMOTO,K. UNION OF JAPANESE SCIENTISTS AND ENGINEERS,PROC. INT. SYMP. AIR POLLUT.,TOKYO,JAPAN,1972,P.643-656 (JAPANESE)
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		0193N	"CATALYSTS FOR EXHAUST GAS TREATMENT" OKUYAMA,T.,SANO,M.,MANABE,S.,IWABUCHI,H. GER. OFFEN. 2252402 (B 01J, F 01N),MAY 30,1973,36P.

CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
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		0064N	"METHOD OF TREATING EXHAUST GASES OF INTERNAL COMBUSTION ENGINES" GROSS, G.P., ET AL. U.S. PATENT 3,370,914, FEB. 27, 1968, 27P.
		0071N	"A NEW FAMILY OF CATALYSTS FOR NITRIC ACID TAIL GASES" ANDERSEN, H.C., ROMEO, P.L., GREEN, W.J. NITROGEN, NO. 50, P.33-36, NOV./DEC. 1967
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		0087N	"PURIFICATION OF NITROGEN OF EXHAUST GAS IN THE PRODUCTION OF WEAK NITRIC ACID FOR THE SYNTHESIS OF AMMONIA" NABIYEW, M.K., ET AL. DUKL. AKAD. NAUK UZ. SSR, V.20, NO.11, P.17-20, 1963 (RUSSIAN)

CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC NO	TITLE
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	0121N	"CATALYSTS FOR PURIFICATION OF AUTOMOBILE EXHAUST GAS; (II),CONTACT REDUCTION BY CO AND C3H8 OF NO" NAKAJIMA,F.,TAKUCHI,M. PREPRINT, JAPAN CHEMICAL SOCIETY,TOLYO,1P.,1971 (JAPANESE)
	0122N	"ON REMOVAL OF NO GAS GENERATED IN MEDIUM AND SMALL SIZE CHEMICAL FACTORIES" OYA,S.,OYA,N. PREPRINT, SAFETY ENGINEERING SOCIETY OF JAPAN. TOLYO,4P.,197 0 (JAPANESE)
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
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	0182N		"POLLUTION FROM NITRIC ACID PLANTS; PURIFICATION OF TAIL GAS USING PLATINUM CATALYSTS" SEARLES,R.A. PLATINUM MET. REV.,V.17,NO.2,APR. 1973,P.57-63

CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
REDXN-W/HC		0191N	"AMMONIA FORMATION IN THE NITRIC OXIDE-METHANE REACTION" VARTULI, J.C., GONZALEZ, R.D. IND. ENG. CHEM. PROD. RES. DEVELOP., V. 12, NO. 3, 1973, P. 171-175
		0195N	"CATALYTIC PURIFICATION OF WASTE GASES FROM NITRIC ACID MANUFACTURE" COLLINS, M.F., MICHALEK, R. GER. OFFEN. 2255732 (C 01B), MAY 24, 1973, 16P.
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		0207N	"ADSORPTIVITIES AND REACTIVITIES OF LOWER HYDROCARBONS DURING OXIDATION ON A SILVER CATALYST BY NITRIC OXIDE" BELOUSOV, V.M., MUIK, I.Y., RUBANIK, M.Y. TRANSLATED FROM KINETIKA I KATALIZ, V. 10, NO. 4, JULY-AUG. 1969, P. 841-846
		0210N	"CATALYTIC TREATMENT OF NITRIC ACID PLANT TAIL GAS" ANDERSEN, H.C., GREEN, W.J., STEELE, D.R. INDUSTRIAL AND ENGINEERING CHEMISTRY, V. 53, NO. 3, MAR. 1961, P. 199-204
		0216N	"NOX REDUCTION CATALYSTS FOR VEHICLE EMISSION CONTROL" MEGUERIAN, G.H., RAKOWSKY, F.W., HIRSCHBERG, F.H., LANG, C.R., SCHOC SOC. AUTOMOT. ENGRS., SPEC. PUB. NO. 370, 24P., MAY 1972

CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
REDXN-W/HC	0218N		"CONTACT TYPE REMOVAL METHOD FOR NO CONTAINED IN GAS MANUFACTURED FROM COAL, COKE, OR OIL" OKI,T.,TETSU,A.,AKIRA,T.,SHIGERU,H. JAPAN PAT. SHO 46-18383, 4P., MAY 22, 1971
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	0225N		"COBALT SULFIDE AND NICKEL SULFIDE CATALYSTS FOR REDUCTION OF NITROGEN OXIDES IN EXHAUST GASES" POMOT,J.L.E. GER. OFFEN. 2307342 (B01J), AUG. 30, 1973
	0226N		"CATALYTIC REMOVAL OF NITROGEN OXIDES FROM AUTOMOTIVE EXHAUST GASES" SIMIZU,I.,DAWASAKI,M. JAPAN. KOKAI 73 71366(13(7)A11, 51 D51, 13(9) G3),SEPT. 27, 1973
	0228N		"CATALYST FOR REMOVING NITROGEN OXIDES" HASEGA,O.,YOKOTA,S. JAPAN. KOKAI 73 55890 (13(9)G11), AUG. 6, 1973
	0229N		"COPPER-IRON-NICKEL ALLOY CATALYSTS FOR REMOVAL OF NITRIC OXIDE FROM AUTOMOTIVE EXHAUST GASES" NIIMI,I.,MORITA,A.,MUNOTO,Y.,SATO,M. GER. OFFEN. 2306785 (C 22C), AUG. 23, 1973

CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
REDXN-W/HC	0230N		"CHROMIUM OXIDE-IRON OXIDE-NICKEL OXIDE CATALYSTS FOR TREATMENT OF AUTOMOTIVE EXHAUST GASES" OKUYAMA,T.,SANO,M.,MINE,J. GER. OFFEN. 2308789 (B01J), AUG. 30,1973
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	0258N		"AMMONIA FORMATION IN THE CATALYTIC REDUCTION OF NITRIC OXIDE. III. THE ROLE OF WATER GAS SHIFT, REDUCTION BY HYDROCARBONS AND STEAM REFORMING" SHELEF,M.,GANDHI,H.S. IND. ENG. CHEM., PROD. RES. DEVELOP., 13(1): 80-85, 1974

CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
REDXN-W/H2	0259N		"PROCESSING NITRIC ACID TAIL GAS" ADLHART,O.J.,HINDIN,S.G.,KENSUN,R.F. CHEM. ENG. PROGRESS, 67(2), 73-78
REDXN-W/H2	0004N		"CATALYTIC REDUCTION OF NITROGEN DIOXIDE WITH HYDROGEN" AYEN,R.J.,AMIRNAZMI,A. A.I.C.H.E. CLEVELAND MEETING,MAY 1969,30P.
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC NO	TITLE
REDXN-W/H2	0067N	"THE CATALYTIC NITRIC OXIDE REDUCTION AND AMMONIA OXIDATION (IV)" ADRUSSOW,L. CHEM. BER.,V.60,P.536-540,1927 (GERMAN)
	0099N	"ELIMINATION OF NITROUS GAS EMISSION BY CATALYTIC REDUCTION" JEITNER,O.,KONIG,K. CHEM. TECH. (BERLIN),V.19,NO.3,P.166-169,MAR. 1967 (GERMAN)
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC NO	TITLE
REDXN-W/H2	0132N	"CATALYTIC REDUCTION OF OXIDES OF NITROGEN (FINAL REPT.)" PETERSEN, E.E., BEIL, A.T. UNIV. OF CALIF., BERKELEY, DEPT. OF CHEMICAL ENGINEERING, GRANT AP-00387, 6P., 1970
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	0157N	"RAPID, CONTINUOUS CONVERSION OF NO TO N2 PLUS H2O" ALEI, M. LOS ALAMOS SCIENTIFIC LAB., N. MEX., REPT. LA-4904, UC-4, 5P., AP R. 1972
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	0169N	"THE APPLICATION OF COPPER-SILICA CATALYST FOR THE REMOVAL OF NITROGEN OXIDES PRESENT IN LOW CONCENTRATIONS BY CHEMICAL REDUCTION WITH CARBON MONOXIDE OR HYDROGEN" SOURIRAJAN, S., BLUMENTHAL, J.L. INTERNATIONAL JOURNAL OF AIR WATER POLLUTION (LONDON), V.5, NO .1, P.24-33, 1961
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
REDXN-W/H2	0179N		"THE CATALYTIC REDUCTION OF NITRIC OXIDE IN AUTOMOBILE EXHAUST GASES - I. TESTS OF IRON-CONTAINING MATERIALS" JENKINS,D.R.,VOISFY,M.A. ATMOSPHERIC ENVIRONMENT,V. 7,1973,P.177-186
	0182N		"POLLUTION FROM NITRIC ACID PLANTS; PURIFICATION OF TAIL GAS USING PLATINUM CATALYSTS" SEARLES,R.A. PLATINUM MET. REV.,V.17,NO.2,APR. 1973,P.57-63
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC NO	TITLE
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
REVIEW-ARTICLES	0160N		"THE CONVERSION CATALYSTS OF AUTOMOTIVE EXHAUST GAS" YUSHITOMI,S.,KASHIYAF,M. NENRYO KYOKAISHI (J. FUEL SOC. JAPAN, TOKYO),V.51,NO.541,P.2 74-280,MAY 1972 (JAPANESE)
	0168N		"CATALYSIS AND THE CONTROL OF OXIDES OF NITROGEN" ROMFO,P.L. PREPRINT, PUBLIC HEALTH SERVICE, NAPCA, AND MUCOM,28P.,1970
	0174N		"CATALYSTS FOR AUTO EXHAUST EMISSION CONTROL " YAMAKI,N.,TSUCHIMOTO,K. UNION OF JAPANESE SCIENTISTS AND ENGINEERS,PROC. INT. SYMP. AIR POLLUT.,TOKYO,JAPAN,1972,P.643-656 (JAPANESE)
	0178N		"SYSTEMS STUDY OF NITROGEN OXIDE CONTROL METHODS FOR STATIONARY SOURCES" BARTOK,W.,ET AL. ESSO RESEARCH AND ENGINEERING CO.,FINAL RPT.,V. 2,NO. GR-2-M PS-69,NOV. 20,1969 (PB 192-789)
	0186N		"NO(X) ABATEMENT TECHNOLOGY IN JAPAN" ANDO,J.,TOHATA,H. FACULTY OF SCIENCE AND ENGINEERING REPORT,CHUN UNIV.,KASUGA, BUNKYO-KU,TOKYO,MAY 1973
	0220N		"POWER AND INDUSTRY; CONTROL OF NITROGEN OXIDE EMISSIONS" PERKINE,R.L.,LIMIN,H. PROJECT CLEAN AIR, CALIF. UNIV. BERKELEY, TASK FORCE 5, 1(9) , SEPT. 1970

CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
REVIEW-ARTICLES	0231N		"NITROGEN OXIDES; AN ANNOTATED BIBLIOGRAPHY" NATIONAL AIR POLLUTION CONTROL ADMINISTRATION NATIONAL AIR POLLUTION CONTROL AD. PUB. NO. AP-72, U.S. DEP T. OF H.E.W., RALIEGH, NO. CAROLINA, AUG. 1970
	0251N		"STUDY OF CATALYTIC CONTROL OF EXHAUST EMISSIONS FOR OTTO CYCLE ENGINES" YOLLES, R.S., WISE, H., BERRIMAN, L.P. STANFORD RESEARCH INSITIUTE, FINAL REPORT, IRVINE, CA., APR. 1970
SELECTIVE-CATAL	0011N		"SELECTIVE CATALYTIC REACTION OF HYDROGEN WITH NITRIC OXIDE IN THE PRESENCE OF OXYGEN" JONES, J.H., ET AL. ENVIRONMENTAL SCIENCE AND TECHNOLOGY, SEP. 1971, P. 790-798
	0015N		"CATALYTIC REDUCTION OF WASTE NITROGEN OXIDES" MARKVART, M., POUR, V. INTERNATIONAL CHEMICAL ENGINEERING, V. 8, NO. 2, APR. 1968, P. 261- 267
	0036N		"CATALYTIC PURIFICATION OF TAIL GAS" GILLESPIE, G.R., BOYUM, A.A., COLLINS, M.F. CHEMICAL ENGINEERING PROGRESS, V. 68, NO. 4, APR. 1972, P. 72-77
	0038N		"SELECTIVE REMOVAL OF OXIDES OF NITROGEN FROM GAS MIXTURES CONTAINING OXYGEN" NONNENMACHER, H., KARTTE, K. U.S. PATENT 3,279,384, OCT. 18, 1966, 4P.

CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
SELECTIVE-CATAL	0042N		"KINETICS OF THE CONTACT INTERACTION OF AMMONIA WITH NITRIC OXIDE AND OXYGEN" KULISH,O.N.,ZASORIN,A.P.,ATROSHCHENKO,A.V. IZV. VYSSH. UCHEB. ZAVED.,KHIM. KHIM. TEKHNOL.,V.15,NO.6,1972,P.955-957(RUSSL)
	0051N		"CATALYSTS FOR THE INTERACTION OF NITROGEN OXIDES WITH AMMONIA STUDIED TO PURIFY WASTE GASES FROM NITRIC ACID PRODUCTION" ATROSHCHENKO,V.I.,ZASORIN,A.P.,KULISH,O.N. KATAL. KATAL.,1972,NO.9,P.26-30(RUSS.)
	0066N		"SELECTIVE REDUCTION OF NITROGEN OXIDES WITH AMMONIA" MARKVART,M.,POUR,V. CHEM. PRUMYSL (PRAGUE),V.19,NO.1,P.8-12,1969 (CZECH.)
	0090N		"METHOD FOR REMOVING NITROGEN OXIDES FROM GASES THROUGH CATALYTIC REDUCTION OF THESE SUBSTANCES TO NITROGEN" SCHMIDT,K. WEST GERMAN PATENT 1,259,298,JAN. 25,1968,2P. (GERMAN)
	0112N		"UTILIZATION OF CATALYST IN AIR POLLUTION CONTROL" YAMANAKA,T. KAGAKU KOGYO (TOKYO),V.22,NO.3,P.102-108,MAR. 1971
	0136N		"EXHAUST GAS PURIFICATION" JONES,J.H.,WEAVER,F.F. U.S. PATENT 3,599,427,AUG. 17,1971,6P.
	0149N		"INVESTIGATION ON CATALYTIC REDUCTION OF EXISTING NITRIC OXIDES BY AMMONIA" GAJEWSKI,A.,KUPIEK,S.,ZYGADLO,J. PRZEMYSŁ CHEM.,V.51,NO.1,P.44-46,1971 (POLISH)

CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
SELECTIVE-CATAL	0155N		"CONTROL TECHNIQUES FOR NITROGEN OXIDE EMISSIONS FROM STATIONARY SOURCES" PUBLIC HEALTH SERVICE PUBLIC HEALTH SERVICE, WASHINGTON D.C., NAPCA AP-67, 113P., MAR. 1970
	0158N		"INTERACTION OF NITRIC OXIDE WITH GRAPHITE" EDWARDS, H.W. PREPRINT, AMERICAN INST. OF CHEMICAL ENG., NEW YORK, 44P., 1971 , FROM 64TH MEETING, PAPER 28D
	0163N		"INVESTIGATION OF THE KINETICS OF THE NITRIC OXIDE CATALYTIC REDUCTION BY AMMONIA IN THE PRESENCE OF OXYGEN" ATRUSHCHENKO, V.I., KULISH, O.N., BYLINKIN, V.N. KHIM. TEKHNOL., NO. 4, P. 60-62, 1971 (RUSSIAN)
	0170N		"REMOVAL OF AMMONIA FROM GAS" MERKEL, H. W. GER. PATENT APPL. 2,026,657, JUN 1, 1970, 10P.
	0175N		"THE INFLUENCE OF OXYGEN ON THE CATALYTIC REDUCTION OF NITRIC OXIDE BY AMMONIA" MARKVART, M., POUR, V. J. CATALYSIS, 7, P. 279-281, 1967
	0178N		"SYSTEMS STUDY OF NITROGEN OXIDE CONTROL METHODS FOR STATIONARY SOURCES" BARTOK, W., ET AL. FSSO RESEARCH AND ENGINEERING CO., FINAL RPT., V. 2, NO. GR-2-M PS-69, NOV. 20, 1969 (PB 192-789)

CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
SELECTIVE-CATAL	0181N		"CATALYTIC REMOVAL OF AMMONIA AND NITROGEN OXIDES FROM SPACECABIN ATMOSPHERES" GULLY,A.J.,ET AL. TEXAS TECH. UNIV.,LURBOCK,NASA CONTRACT REP-2132,FEB 1973,17 OP.
	0210N		"CATALYTIC TREATMENT OF NITRIC ACID PLANT TAIL GAS" ANDERSEN,H.C.,GREEN,W.J.,STEELE,D.R. INDUSTRIAL AND ENGINEERING CHEMISTRY,V. 53,NO. 3,MAR. 1961,P .199-204
	0211N		"STUDIES OF SURFACE REACTIONS BY NITROGEN - 15 ISOTOPE LABELING I. THE REACTION BETWEEN NITRIC OXIDE AND AMMONIA OVER SUPPORTED PLATINUM" OTTO,K.,SHELEF,M.,KUMMER,J.T. J. PHYS. CHEM.,74(13); 2690-2698,1970
	0212N		"STUDIES OF SURFACE REACTIONS OF NITRIC OXIDE BY ISOTOPE LABELING. IV. REDUCTION OF NITRIC OXIDE BY AMMONIA AND HYDROGEN OVER SUPPORTED RUTHENIUM" OTTO,K.,SHELEF,M. J. PHYS. CHEM.,85(5-6),308-322,1973
	0242N		"SELECTIVE REMOVAL OF NITROGEN OXIDES FROM OXYGEN-CONTAINING GASES ESPECIALLY FROM NITRIC ACID PRODUCTI COHN,J.,STEELE,D.R.,ANDERSEN,H.C. U.S. 2,975,025,NOV. 5, 1971
	0247N		"SECONDARY ION EMISSION STUDY OF THE CATALYTIC REACTIONS BETWEEN AMMONIA AND NITROUS OXIDE AND THE DECOMPOSITION OF NITROUS OXIDE ON PLATINUM" FUGEL,Y.M.,NADYKTO,P.T.,SHVACHKO,V.I.,RYBAIKO,V.F.,KOROREHANS KINETIKA I KATALIZ, 5(5); 942-944, 1964

CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
SELECTIVE-CATAL	0248N		"CATALYTIC REDUCTION OF NOX - PILOT PLANT OPERATION" ENVIRONICS INC. ENVIRONICS INC., HUNTINGTON BEACH, CA., PROGRESS REPORT, JUL Y 1973
SIM-NOX-SOX-CON	0095N		"NITROGEN OXIDES FROM STATIONARY COMBUSTION FURNACE" OHYA,M. SANGYO KOGAI,V.5,NO.8,P.448-456,AUG. 25,1969 (JAPANESE)
	0107N		"PROCESS FOR REDUCING NITRIC OXIDE TO NITROUS OXIDE" SLAUGH,L.H. U.S. PATENT 3,321,274,MAY 23,1967,2P.
	0138N		"REMOVAL OF SULFUR DIOXIDE FROM WASTE GASES BY REDUCTION TO ELEMENTAL SULFUR (FINAL REPORT)" TORO,R.F.,MAGDER,J.,GODING,A.T. PRINCETON CHEMICAL RESEARCH INC.,N.J.,295P.,JULY 30,1969
	0185N		"SIMULTANEOUS CATALYTIC REDUCTION OF NITRIC OXIDE AND SULFUR DIOXIDE BY CARBON MONOXIDE" QUINLAN,C.W.,OKAY,V.C.,KITRELL,J.R. IND. ING. CHEM. PROCFSS DES. DEVELOP.,V. 12,NO.3,1973,P.359- 365
	0222N		"METHOD OF REMOVING SULFUR DIOXIDE AND NITROGEN OXIDES FROM GASES" RYASON,P.R. U.S. PAT. 3,454,355, JULY 8, 1969
	0241N		"SULFUR REMOVAL DURING COMBUSTION OF SOLID FUELS IN A FLUIDIZED BED OF DOLOMITE" ZIELKE,C.W.,LEBROWITZ,H.E.,STRUCK,R.T.,GORIN,F. AMER. CHEM. SOC., DIV. OF FUEL CHEMISTRY, 13(4); 13-29, 1969

CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
STATION-SOURCE	0005N		"CONTROL OF NOX EMISSIONS FROM STATIONARY SOURCES" BARTOK, W., CRAWFORD, W., SKOPP, A. CHEMICAL ENGINEERING PROGRESS, V. 67, NO. 2, FEB. 1971, P. 64-72
	0006N		"STATUS OF NOX CONTROL FROM COMBUSTION SOURCES" CRYNES, B. L., MADDOX, R. N. CHEMICAL TECHNOLOGY, AUG. 1971, P. 502-509
	0012N		"NITRIC ACID PLANT FUME ABATEERS" REED, R. M., HARVIN, R. L. CHEMICAL ENGINEERING PROGRESS, V. 68, NO. 4, APR. 1972, P. 78-79
	0015N		"CATALYTIC REDUCTION OF WASTE NITROGEN OXIDES" MARKVART, M., POUR, V. INTERNATIONAL CHEMICAL ENGINEERING, V. 8, NO. 2, APR. 1968, P. 261-267
	0030N		"STUDIES ON A NEW METHOD OF SIMULTANEOUSLY REMOVING SULFUR DIOXIDE AND OXIDES OF NITROGEN FROM COMBUSTION GASES" RYASON, P. R., HARKINS, J. JOURNAL OF THE AIR POLLUTION CONTROL ASSOCIATION, V. 17, NO. 12, DEC. 1967, P. 796-799
	0032N		"CATALYTIC REMOVAL OF NITROGEN OXIDES FROM EXHAUST GASES OF NITRIC ACID PLANTS" VAN DER DRIFT, J. CHEM. TECH, V. 24, NO. 10, 1969, P. 301-305 (NETH.)
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NU	TITLE
STATION-SOURCE	0037N		"NOX CONTROL FROM STATIONARY SOURCES" HALL,H.J.,BARTOK,W. ENVIRONMENTAL SCIENCE AND TECHNOLOGY,V.5,NO.4,APR. 1971,P.32 0-326
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	0039N		"PROCESS FOR CATALYTICALLY REDUCING NITROGEN OXIDES IN INDUSTRIAL STACK GASES" CHILDERS,E.,ELLIS,C.W.,RYAN,D.J. U.S. PATENT 2,910,343,OCT. 27,1959,7P.
	0041N		"EFFICIENT AND ECONOMICAL DECOMPOSITION OF OXIDES OF NITROGEN" HARRIS,S.W.,MORELLO,F.F.,PETERS,G.H. U.S. PATENT 3,459,494,AUG. 5,1969,2P.
	0042N		"KINETICS OF THE CONTACT INTERACTION OF AMMONIA WITH NITRIC OXIDE AND OXYGEN" KULISH,U.N.,ZASORIN,A.P.,ATROSHCHENKO,A.V. IZV. VYSSH. UCHEB. ZAVED.,KHIM. KHIM. TEKHNOL.,V.15,NO.6,197 2,P.955-957(RUSSL)
	0047N		"COMPARATIVE EMISSIONS OF POLLUTANTS DURING COMBUSTION OF NATURAL GAS AND COAL IN FLUIDIZED BEDS" JARKY,R.L.,ANASTASIA,L.J.,CARLS,E.L.,JONKE,A.A. AIR POLLUTION CONTROL OFFICE,1972,AP-109,I-5,13PP.

CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
STATION-SOURCE	0051N		"CATALYSTS FOR THE INTERACTION OF NITROGEN OXIDES WITH AMMONIA STUDIED TO PURIFY WASTE GASES FROM NITRIC ACID PRODUCTION" ATROSHCHENKO,V.I.,ZASORIN,A.P.,KULISH,O.N. KATAL. KATAL.,1972,NO.9,P.26-30(RUSS.)
	0063N		"METHOD OF DECOMPOSING NITROGEN OXIDES" STEPHENS,R.E. U.S. PATENT 3,552,913,JAN. 5,1971,4P.
	0066N		"SELECTIVE REDUCTION OF NITROGEN OXIDES WITH AMMONIA" MARKVART,M.POUR,V. CHEM. PRUMYSL (PRAGUE),V.19,NO.1,P.8-12,1969 (CZECH.)
	0071N		"A NEW FAMILY OF CATALYSTS FOR NITRIC ACID TAIL GASES" ANDERSEN,H.C.,KOMEI,P.L.,GREEN,W.J. NITROGEN,NO. 50,P.33-36,NOV./DEC. 1967
	0073N		"METHOD OF REMOVING NITROGEN OXIDES FROM GASES" CHILDERS,E.,ELLIS,C.W.,RYAN,D.J. U.S. PATENT 3,125,408,MAR. 17,1964
	0074N		"METHOD OF REMOVING NITROGEN OXIDES FROM GASES" COHN,J.G.E. U.S. PATENT 3,118,727,JAN. 21,1964,4P.
	0076N		"SYSTEM DESIGNS FOR THE CATALYTIC DECOMPOSITION OF NITROGEN OXIDES" DONAHUE,J.L. JOURNAL OF AIR POLLUTION CONTROL ASSOC.,V.8,NO.3,P.209-212,22,NOV. 1958

CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
STATION-SOURCE	0077N		"PRACTICAL SOLUTIONS OF AIR POLLUTION PROBLEMS FROM CHEMICAL PROCESSES" ZANON,D.,SORDELLI,D. CHIM. IND. (MILAN),V.48,NO.2,P.251-261,MAR. 1966 (TRANS. FRO M ITALIAN)
	0082N		"CATALYTIC AFTERBURNING OF ORGANIC AIR POLLUTANTS" BETZ,E.C.,FEIST,H.J. TECHNIK (BERLIN),V.20,NO.6,P.395-400,JUNE 1965 (GERMAN TR.)
	0083N		"THE CATALYTIC REDUCTION OF NITROUS GASES DURING THE MANUFACTURE OF NITRIC ACID" FEIST,J. PROCEEDINGS,INTERNATIONAL CLEAN AIR CONGRESS,LONDON,PT. 1,19 66,PAPER VI/15,P.199-202
	0084N		"PLATINUM CATALYSTS AND AIR POLLUTION CONTROL" HUNTER,J.B. S. AFRICAN MINING ENG. J.,1968,P.438-440,FEB. 23,1968
	0089N		"THE KINETICS OF THE REACTION BETWEEN AMMONIA AND NITRIC OXIDE ON THE SURFACE OF A PLATINUM FILAMENT" MICHAILOVA,E.A. ACTA PHYSICOCHEM. USSR,V.10,NO.5,P.653-676,1939
	0090N		"METHOD FOR REMOVING NITROGEN OXIDES FROM GASES THROUGH CATALYTIC REDUCTION OF THESE SUBSTANCES TO NITROGEN" SCHMIDT,K. WEST GERMAN PATENT 1,259,298,JAN. 25,1968,2P. (GERMAN)

CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
STATION-SOURCE	0091N		"CLEANING OF INDUSTRIAL GASES WITH PRECIOUS METAL CATALYSTS" ANDERSEN, H.C. DECHEMA MONOGRAPH., V.40, P.325-333, 1962 (GERMAN)
	0097N		"NATURAL-GAS CATALYTIC REDUCTION OF NITRIC OXIDE TAIL GASES FROM NITRIC ACID PRODUCTION" TIKHONENKO, A.D., NABIFV, M.N. UZBESK. KHIM. ZH., V.11, NO.4, P.6-9, 1967 (RUSSIAN)
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	0107N		"PROCESS FOR REDUCING NITRIC OXIDE TO NITROUS OXIDE" SLAUGH, L.H. U.S. PATENT 3,321,274, MAY 23, 1967, 2P.
	0110N		"TECHNIQUES FOR CONTROLLING THE OXIDES OF NITROGEN" HARDISON, L.C. JOURNAL AIR POLLUTION CONTROL ASSOC., V.20, NO.6, P.377-382, JUN E 1970
	0112N		"UTILIZATION OF CATALYST IN AIR POLLUTION CONTROL" YAMANAKA, T. KAGAKU KOGYO (TOKYO), V.22, NO.3, P.102-108, MAR. 1971
	0115N		"DESIGN, CONSTRUCTION AND TESTING OF CATALYTIC AFTERBURNERS FOR REMOVAL OF AIR POLLUTANTS FORMED IN AUTOMOTIVE AND STATIONARY COMBUSTION PROCESSES" BAUERLE, G.L., NOBF, K. IN PROJECT CLEAN AIR, V.1, U.C.L.A. SCHOOL OF ENGINEERING, RFSE ARCH PROJ. S-2, 46P., SEP. 1, 1970

CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
STATION-SOURCE	0117N		"BENCH SCALE INVESTIGATION OF INCRA CATALYST FOR THE TREATMENT OF NITRIC ACID MANUFACTURING PLANT ATMOSPHERIC FMI CHEMICAL CONSTRUCTION CORP. CHEMICAL CONSTRUCTION CORP., NEW YORK, CONSULTING DIV., FINAL R EPT. 0053C, 87P., MAR. 1969
	0118N		"PROCESS FOR THE OXIDATION OF NITRIC OXIDE" ANDERSEN, H.C., HALFY, A.J. U.S. PATENT 3,079,232, FEB. 26, 1963, 4P.
	0122N		"ON REMOVAL OF NO GAS GENERATED IN MEDIUM AND SMALL SIZE CHEMICAL FACTORIES" OYA, S., OYA, N. PREPRINT, SAFETY ENGINEERING SOCIETY OF JAPAN, TOKYO, 4P., 197 0 (JAPANESE)
	0123N		"NITROGEN OXIDE POLLUTION; NITRIC ACID PLANT POLLUTANTS" NEWMAN, D.J. CHEMICAL ENGINEERING PROGRESS, V.67, NO.2, P.79-84, FEB. 1971
	0124N		"CONTROL OF NITROGEN OXIDE EMISSIONS FROM NITRIC ACID MANUFACTURING PROCESSES" GERSTLE, R.W., PETERSON, R.F. AIR ENGINEERING, V.9, NO.4, P.24-28, APR. 1967
	0125N		"METHOD TO MANUFACTURE VAPOR-PHASE OXIDATION CATALYST FOR SULFUROUS ACID GAS" NINOMIYA, N., ICHIKAWA, H., NISHINO, H. JAPAN. PATENT SHO 46-7571, FEB. 25, 1971, 2P.

CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
STATION-SOURCE	0127N		"CONTACT TYPE REMOVAL METHOD FOR NO CONTAINED IN GAS MANUFACTURED FROM COAL, COKE, OR OIL" TAKETO, O., ABE, T., TOYAMA, A., HASEHA, S. JAPAN. PATENT SHO 46-18383, MAY 22, 1971, 4P. (JAPANESE)
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	0138N		"REMOVAL OF SULFUR DIOXIDE FROM WASTE GASES BY REDUCTION TO ELEMENTAL SULFUR (FINAL REPORT)" TORO, R.F., MAGDER, J., GODING, A.I. PRINCETON CHEMICAL RESEARCH INC., N.J., 295P., JULY 30, 1969
	0144N		"CONTROL OF NITROGEN OXIDE EMISSIONS FROM COMBUSTION SOURCES; PT. I, STATIONARY COMBUSTION SOURCES" SOLLOJO, K.C. JOURNAL OF FUEL HEAT TECHNOLOGY, V.18, NO.1, P.2-6, JAN. 1972
	0146N		"EPR STUDY OF CHANGES OF COORDINATION STATE OF TETRAVALENT VANADIUM IONS ON A VANADIUM CATALYST SURFACE UPON ADSORPTION OF NH ₃ , SO ₂ , N ₂ O, AND N ₂ " VOROTYNTSEV, V.M., SHVETS, V.A., KAZANSKIY, V.B. KHEFTIKI I KATALIZ, V.12, NO.3, P.678-684, 1971 (RUSSIAN)

CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
STATION-SOURCE	0149N		"INVESTIGATION ON CATALYTIC REDUCTION OF EXIT NITRIC OXIDES BY AMMONIA" GAJEWSKI, A., KUPIEK, S., ZYGADLO, J. PRZEMYSŁ CHEM., V. 51, NO. 1, P. 44-46, 1971 (POLISH)
	0153N		"THERMAL AND CATALYTIC WASTE GAS CLEANING INCLUDING THE WET NITROGEN OXIDE PROCEDURES" BRAND, H. CHEM. TECH. (BERLIN), V. 1, NO. 5, P. 224-225, MAY 1972 (GERMAN)
	0154N		"CATALYTIC REMOVAL OF NOX IN GASES" INOUE, T. NENKYO KYOKAISHI (J. FUEL SOC. JAPAN, TOKYO), V. 51, NO. 1, P. 19-24, JAN. 1972 (JAPANESE)
	0156N		"ACTIVITY OF COBALT IONS DISPERSED IN MAGNESIUM OXIDE FOR THE DECOMPOSITION OF NITROUS OXIDE" CIMINO, A., PEPE, F. JOURNAL OF CATALYSIS, V. 25, NO. 3, P. 362-377, JUNE 1972
	0163N		"INVESTIGATION OF THE KINETICS OF THE NITRIC OXIDE CATALYTIC REDUCTION BY AMMONIA IN THE PRESENCE OF OXYGEN" ATROSHCHENKO, V. I., KULISH, O. N., BYLINKIN, V. N. KHIM. TEKHNOL., NO. 4, P. 60-62, 1971 (RUSSIAN)
	0164N		"CATALYTIC REDUCTION OF WASTE NITROGEN OXIDES" JAROS, S., KRIZEK, J. CHEM. PRUMYSŁ (PRAGUE), 17/42(11), P. 581-586, 1967 (CZECH.)
	0165N		"CATALYTIC REMOVAL OF NITROGEN OXIDES FROM WASTE GASES ON NICKEL CATALYSTS" TIKHONENKO, A. D., NABIYEV, M. N., IBRAGIMOV, Y. I. UZBEKSK. KHIM. ZH., NO. 4, P. 6-8, 1970 (RUSSIAN)

CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
STATION-SOURCE	0168N		"CATALYSIS AND THE CONTROL OF OXIDES OF NITROGEN" ROMFO,P.L. PREPRINT, PUBLIC HEALTH SERVICE, NAPCA, AND MHCOC,28P.,1970
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC NO	TITLE
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
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~~CATALYTIC NOX~~
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
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CATALYTIC NOx
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

KEYWORD	ACC	NO	TITLE
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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

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CATALYTIC NOX
CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

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CONTROL PROGRAM
KEYWORD INDEX
30 APR 74

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AUTHOR INDEX

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16. ABSTRACT The report summarizes results of investigations to assess the technical and economic feasibility of utilizing catalytic processes in power plant nitrogen oxide (NOx) emission abatement. The investigations involved a literature survey and the development of a data bank on pertinent articles and patents, experimental screening tests on selected promising catalysts, and preliminary design and cost analysis of candidate processes adapted to new and/or existing power plants. The stepwise selection and prioritization of catalysts indicated that at least two types of catalytic NOx control processes should be adaptable to power generating plants: selective reduction of NOx with ammonia on non-noble metal catalysts; and simultaneous nonselective reduction of NOx and sulfur oxides with coal-derived reductants on non-noble metal catalysts.		
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