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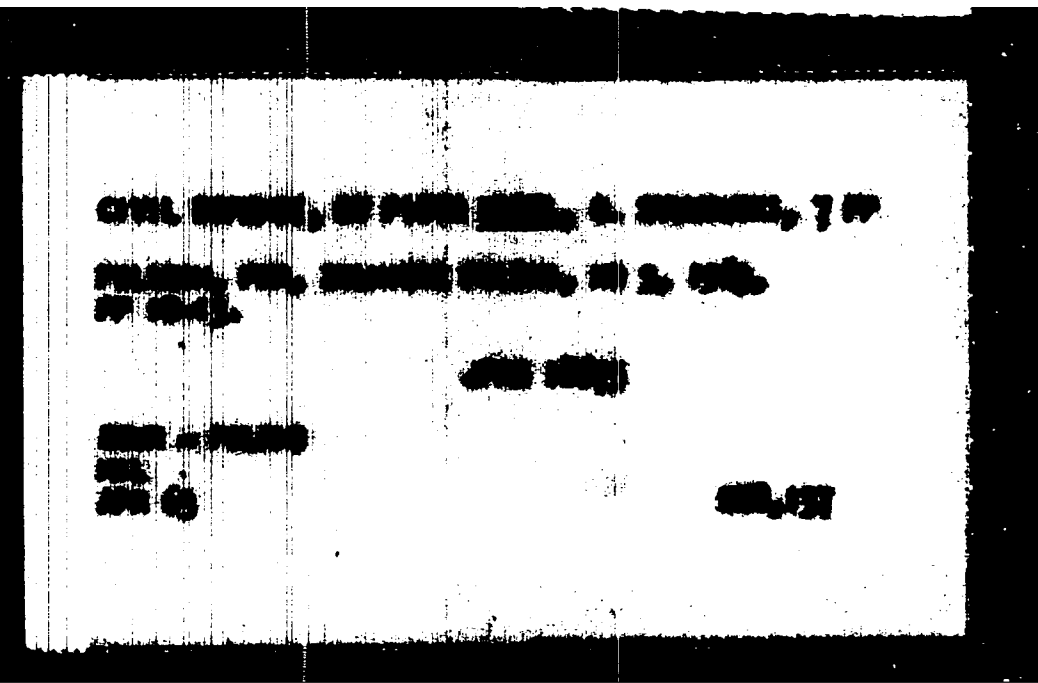
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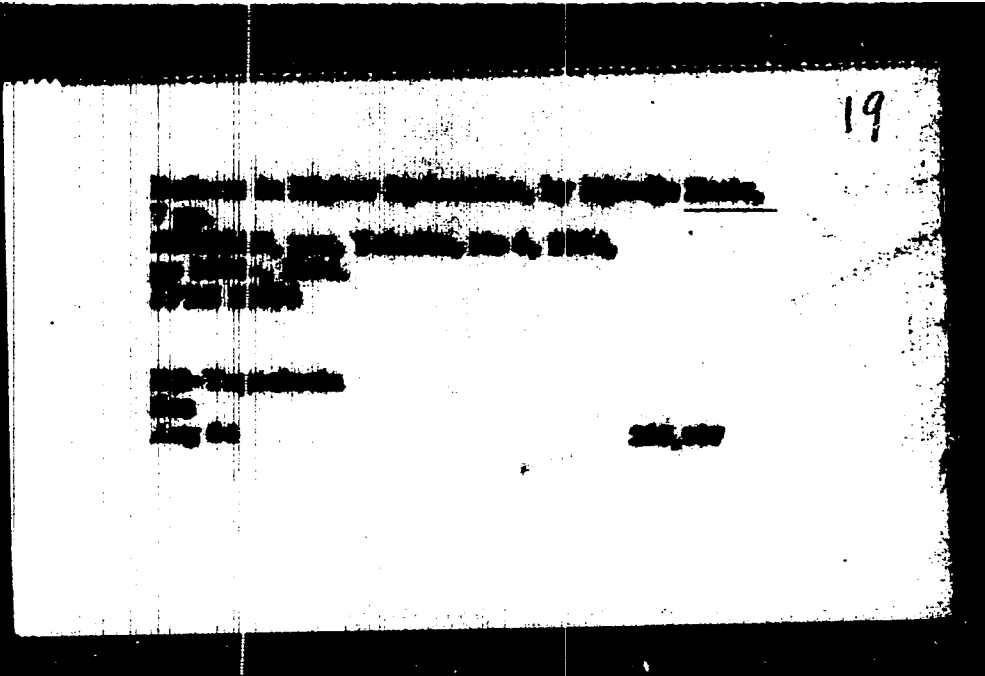
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*AT / J - 9520*

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Utilization of Olefines in Low Temperature Coal Tar  
I. Analysis of Olefines and ~~Some~~ Their Poly-  
merization, by J. ~~Kato~~, K. Takeshita, N. Terashima,  
8 pp.

JAPANESE, per, Technol Rept Kyushu Univ, Vol XXIV,  
1951, pp 66-70.

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63-17925

**Kato, Jiro, Iwanaga, Yoshiharu and others.**  
**METHOD OF CONTINUOUSLY SYNTHESIZING**  
**ALDEHYDE BY THE OXO-REACTION.** July 63, 14p.  
(figs. omitted).  
Order from SA \$22.00 SA Code-P-141

Trans. of published Japanese patent 12255/1962, cl.  
16-B-51 (16-B-013) (16-B-68) appl. no. 283/1959 filed  
31 Dec 58, pub. 28 Aug 62, by Ajinomoto Co., Ltd.

DESCRIPTORS: \*Aldehydes, Synthesis (Catalysis),  
\*Oxo process, \*Cobalt catalysts, Carbonyl radicals,  
Carbon compounds, Monoxides, Hydrogen, Alkenes.

(Chemistry--Organic, FT, v. 10, no. 6)

- I. Kato, J.
- II. Iwanaga, Y.
- III. Patent (Japan)  
pub. 37-12 255
- IV. SA Code-P-141
- V. Seizaburo Aoki (Japan)

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Kato, Jiro, Wakamatsu, Hachiro and others.  
EFFECTS OF SOLVENTS UPON THE OXO REACTION  
OF ACRYLONITRILE. Rept. no. 1 of Studies on (Beta)  
Cyanopropionaldehyde. [1963] 9p. (figs. tables omitted)  
15 refs.  
Order from SLA \$1.10                      63-16276

Trans. of Kogyo Kagaku Zasshi (Japan) 1961, v. 64,  
no. 12, p. 2139-2142.

DESCRIPTORS: \*Acrylonitrile, Oxo process,  
\*Glutamic acid, Solvent action, Synthesis (Chemistry),  
Reduction (Chemistry), \*Aldehydes, \*Cyano radicals.

The effects of the solvents upon the oxo reactions of  
acrylonitrile were investigated as the first stage for  
the synthesis of glutamic acid from (beta) cyan propion  
aldehyde through the oxo reaction of acrylonitrile.  
Different from the ordinary olfiness, the effect of the  
(Chemistry--Organic, TT, v. 10, no. 7) (over)

63-16276

I. Title:  $\beta$ -Cyanopropional-  
aldehyde  
I. Kato, J.  
II. Wakamatsu, H.  
III. Title: Studies . . .

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63-16275

Kato, Jiro; Hayashi, Izumi and others.  
PREPARATION OF AN AMMONIA AQUEOUS SOLUTION OF HYDROGEN CYANIDE AND ITS UTILIZATION: SYNTHESIS OF GLUTAMIC ACID FROM (BETA) CYAN PROPIONALDEHYDE. Rept. no. 5 of Studies on (Beta) Cyanpropionaldehyde. [1963] 13p. (figs. tables omitted) 15 refs.

- I. Title:  $\beta$ -Cyanpropionaldehyde
- I. Kato, J.
- II. Hayashi, I.
- III. Title: Synthesis . . .
- IV. Title: Studies . . .

Order from SLA \$1.60  
63-16275  
SLA TT-63-16275 KKZ-65-4-1  
Trans. of Kogyo Kagaku Zasshi (Japan) 1962, v. 65, no. 4, p. 552-556.

1247385

DESCRIPTORS: \*Acrylonitriles, Oxo process, \*Glutamic acid, Solvent action, Synthesis (Chemistry), Reduction (Chemistry), \*Aldehydes, \*Cyano radicals.

Hydrogen cyanide was synthesized in accordance with the Andrussow method which is ordinarily employed as a method for the industrial synthesis of hydrogen (Chemistry--Organic, TT, v. 10, no. 7) (over)

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Kato, Jiro, Wakamatsu, Hachiro and others.  
SYNTHESIS OF (BETA) CYANPROPIONALDEHYDE BY  
OXO REACTION. Rept. no. 2 of Studies on (Beta)  
Cyanpropionaldehyde [1953] 10p. (figs. tables omitted)  
16 refs.  
Order from SLA \$1.10                      63-16277

Trans. of Kogyo Kagaku Zasshi (Japan) 1961, v. 64,  
no. 12, p. 2142-2145.

DESCRIPTORS: \*Acrylonitrile, Oxo process,  
\*Gluzamic acid, Solvent action, Synthesis (Chemistry),  
Reduction (Chemistry), \*Aldehydes, \*Cyanoo radicals.

It was found that, in the oxo reaction of acrylonitrile,  
there is less waste of (beta) cyan propion aldehyde in  
connection with the decomposition of cobalt carbonyl  
when such solvents as will carry out homomolecular  
disproportionation with dicobalt carbonyl like Lewis  
(Chemistry--Organic, TT, v. 10, no. 7) (over)

63-16277

- I. Title:  $\beta$ -Cyanpropional-  
aldehyde
- I. Kato, J.
- II. Wakamatsu, H.
- III. Title: Studies . . .

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Kato, Jiro, Komatsu, Takashi and others.  
CHEMICAL PROPERTIES OF (BETA)-CYANOPROPION  
ALDEHYDE. [1963] 14p. (formulas omitted) 17 refs.  
Order from SLA \$1.60 63-16274

Trans. of Kogyo Kagaku Zasshi (Japan) 1962, v. 65,  
no. 4, p. 548-551.

DESCRIPTORS: \*Aldehydes, \*Cyano radicals,  
Chemical properties, Polymers, Polymerization,  
Propionic acids, Oxidation.

- I. Title: Cyanopropion aldehyde
- I. Kato, J.
- II. Komatsu, T.

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(Chemistry--Organic, TT, v. 10, no. 3)

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Zero-Current and Polarity-Effect in Ionization  
Chambers, by H. Tatsuta, K. Kato, 10 pp.

JAPANESE, per, Nihon Genshi-Ryoku Gakkaishi Shi, Vol III,  
No 8, 1961, pp 602-607. (9208255)

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AGC Time Constant of the Single Sideband  
Suppressed Carrier Systems, by K. Kato, et al  
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Vol VI, No 26, 1960, pp 268-272.  
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Microscopical Observations on 6-Nylon Filaments  
Undergoing Photodegradation, by K. Iato.

JAPANESE, per, Sen-i Gakkaishi, Vol XVII, No 2,  
1961, pp 139-143.

NLL M 8842

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Chemical Investigations of Marine Mammals in  
Bottom Sediments, by K. Kato,  
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Dec 1956.  
Dept of Interior  
Fish and Wildlife Service  
DCF, Bureau of Foreign Fisheries

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Statistical Properties of the Fundamental  
Frequencies of Japanese Speech Voices, by  
Shuzo Saito, Matsuhiro Kato, 18 p.

JAPANESE, per, Nihon Onkyo Gakkaishi, 1958,  
Vol XIV, No 2, pp 111-116.

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Vol 2, No 6

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Synthetic Studies on Glucuronic Acid Derivatives.  
I. The Synthesis on Aryl- -D-Glucopyranosidu-  
ronic Acids, by Hisao Tsukamoto, Masatomo Hamana,  
Keitaro Kato, Takeshi Kuroda, 13 pp.

JAPANESE, per, Yakugaku Zasshi, Vol LXXVI,  
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SMOKE. [1964] 21p  
Order from K-H \$12.60                      K-H-12616

Trans. of [Nihon Senbai Koshu Chuo Kenkyukai Kenkyu  
Hokoku] (Japan) 1962, v. 104, p. 118-121.

(Chemistry, TT, v. 11, no. 11)

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- IV. Kraege-Hooker Science  
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Detroit, Mich.

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Reaction between Molten Steel and Refractories.  
Part 8. Reduction of  $SiO_2$  and  $Al_2O_3$  by Carbon  
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Hokoku, Vol 11, No 5, 1962, pp 263-269.

ATC 69-11411-11F

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AEC-tr-4482(p.236-51)      Uncl.

RESEARCH ON ENGINE WEAR BY USE OF RADIOACTIVE  
TRACERS: PISTON RINGS ACTIVATED BY DEUTERON  
BOMBARDMENT. M. Kato, S. Tsutano, Y. Takai,  
and A. Umehara.

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Radioisotopes, Oct. 1954*

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The Diffusion and Solubility of Iron in  
Liquid Zinc, by M. Kato.  
JAPANESE, per, Tetsu to Hagane, Vol 50,  
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