DOMBROVSKIY, A.V.

Meerwein reaction (haloarylation and arylation of unsaturated compounds with aromatic diazo compounds). Reakt.org.soed 11: 285-373 '62. (MIRA 15:6)
(Unsaturated compounds) (Diazo compounds)

DOMBROVSKIY, A.V.; ZOLOTUKHINA, K.G.; GANUSHCHAK, N.I.

Complex compounds of cobalt and copper thiocyanates and antimony and bismuth iodides with 4-N-piperidine-2-methyl-1-phenyl-2-butene. Ukr.khim.zhur. 28 no.4:459-461 '62. (MIRA 15:8)

1. Chernovitskiy gosudarstvennyy universitet.
(Complex compounds) (Metals—Analysis)

DOMBROVSKIY, A.V.; BAL'ON, Ya.G.; TASHCHUK, K.G.

Haloarylation of unsaturated compounds by aromatic diazo compounds. Part 14: Synthesis of α-methylstilbenes. Zhur.ob.khim. 32 no.2:603-607 F '62. (MIRA 15:2)

1. Chernovitskiy gosudarstvennyy universitet.
(Stilbene)

DOMBROVSKIY, A.V.; GANUSHCHAK, N.I.

Halogenation of unsaturated compounds with aromatic diazo compounds. Part 16: Synthesis of 1-aryl-1,3-pentadienes by arylation of piperylene. Zhur.ob.khim. 32 no.6:1888-1892 Je '62. (MIRA 15:6)

1. Chernovitskiy gosudarstvennyy universitet.
(Piperylene) (Diazo compounds) (Pentadiene)

DOMBROVSKIY, A.V.; SHEVCHUK, M.I.; KRAVETS, V.P.

Preparation of α-bromoethyl aryl ketones by bromination of ethyl aryl ketones with dioxane dibromide. Zhur.ob.khim. 32 no.7:2278-2281 Jl '62. (MIRA 15:7)

1. Chernovitskiy gosudarstvennyy universitet.
(Ketone) (Bromination)

DOMBROVSKIY, A. V.; TASHCHUK, K. G.

Haloarylation of unsaturated compounds with aromatic diazo compounds. Part 17: Arylation of α-chlorostyrene and production of tolans. Zhur. ob. khim. 33 no.1:165-170 '63. (MIRA 16:1)

1. Chernovitskiy gosudarstvennyy universitet.

(Styrene) (Diazo compounds) (Acetylene)

SHEVCHUK, M.I.; DOMBROVSKIY, A.V.

Preparation of ω-monobromomethyl aryl ketones by bromination of methyl aryl ketones in dioxane. Zhur.ob.khim. 33 no.4:1135-1136 Ap '63. (MIRA 16:5)

1. Chernovitskiy gosudarstvennyy universitet.
(Ketone) (Bromination)

ZOLOTUKHINA, K.G.; GANUSHCHAK, N.I.; YUKHOMENKO, M.M.; DOMBROVSKIY, A.V.

Tertiary amines and quaternary salts based on 4-chloro-1-aryl-2-butenes of secondary and tertiary heterocyclic nitrogen bases. Zhur.ob.khim. 33 no.4:1222-1227 Ap '63. (MIRA 16:5)

1. Chernovitskiy gosudarstvennyy universitet.
(Amines) (Heterocyclic compounds)

DOMBROVSKIY, A.V.; SHEVCHUK, M.I.

Synthesis of aroylmethylenetriphenylphosphoranes. Zhur.pb.khim. 33 no.4:1263-1269 Ap '63. (MIRA 16:5)

1. Chernovitskiy gosudarstvennyy universitet.
(Phosphorane)

YUKHOMENKO, M.N.; GANUSHCHAK, N.I.; DOMBROVSKIY, A.V.

Synthesis of 1-arylbuten-2-yldiethylmalonic esters and 1-arylbuten-2-ylacetic acids from chloroaryl butenes and sodium malonic ester. Zhur. ob. khim. 33 no.8:2528-2532 Ag '63. (MIRA 16:11)

1. Chernovitskiy gosudarstvennyy universitet.

GANUSHCHAK, N.I.; DOMIROVSKIY, A.V.; VISLOBITSKAYA, O.A.

Syntheses based on diene condensation. Part 1: 1-Methyl-4-arylanthraquinones. Zhur. ob. khim. 33 no.8:2532-2534 Ag '63. (MIRA 16:11)

1. Chernovitskiy gosudarstvennyy universitet.

YUKHIMENKO, M.M.; GANUSHCHAK, N.I.; DOMBROVSKIY, A.V.

Synthesis of 1-arylbuten-2-ylacetylacetones. Ukr. khim. zhur. 30 no.6:615-618 '64. (MIRA 18:5)

1. Chernovitskiy gosudarstvennyy universitet.

DOMBROVSKIY, A.V.; SHEVCHUK, M.I.

Preparation of vinyl aryl ketones by Wittig reaction from aroyl methylenetriphenylphosphorane and paraldehyde. Zhur.ob.khim. 34 no.1:192-196 Ja '64. (MIRA 17:3)

1. Chernovitskiy gosudarstvennyy universitet.

SHEVCHUK, M.I.; DOMBROVSKIY, A.V.

Preparation of 2-vinyl furyl- and 2-vinyl thienyl ketones.
Zhur. ob. khim. 34 no. 3:916-919 Mr '64. (MIRA 17:6)

1. Chernovitskiy gosudarstvennyy universitet.

NAYDAN, V.M.; DOMBROVSKIY, A.V.

New method for preparation of aryl tic acids. Zhur. ob. khim. 34 no. 5:1469-1473 My '64. (MIRA 17:7)

1 Chernovitskiy gosudarstvennyy universitet.

SHEVCHUK, M.I.;DOMBROVSKIY, A.V.

Preparation of isopropenyl aryl ketones by the Wittig reaction.
Zhur. ob. khim. 34 no. 5:1473-1477 My '64.

1. Chernovitskiy gosudarstvennyy universitet.

GANUSHCHAK, N.I.; YUKHOMENKO, M.M.; STADNICHUK, M.D.; DOMBROVSKIY, A.V.

Haloarylation of unsaturated compounds with aromatic diazo compounds. Part 18: Chloroarylation of diisopropenyl. Zhur. ob. khim. 34 no.7:2238-2243 Jl '64 (MIRA 17:8)

1. Chernovitskiy gosudarstvennyy universitet i Leningradskiy tekhnologicheskiy institut imeni Lensoveta.

PAVTUSHAK, N.O.; DOMBROVSKIY, A.V.; ROGOVIK, L.I.

Haloarylation of unsaturated compounds with aromatic diazo compounds. Part 19: Chloroarylation of α-chloroacrylonitrile. Zhur. ob. khim. 34 no.7:2243-2246 Jl '64 (MIRA 17:8)

1. Chernovitskiy gosudarstvennyy universitet.

SHEVCHUK, M.I.; GANUSHCHAK, N.I.; DOMBROVSKIY, A.V.

Syntheses based on diene condensation. Part 2: Condensation of vinylaryl ketones with some conjugated diene hydrocarbons. Zhur. ob. khim. 34 no.7:2247-2250 Jl '64 (MIRA 17:8)

1. Chernovitskiy gosudarstvennyy universitet.

SHEVCHUK, M.I.; DOMBROVSKIY, A.V.

Ultraviolet spectra of aroylalkylenetriphenylphosphorane. Zhur. ob. khim. 34 no.8:2717-2718 Ag '64. (MIRA 17:9)

1. Chernovitskiy gosudarstvennyy universitet.

GAIUSHCHAK, N.I.; YUKHOMENKO, M.M.; ROZVAGA, R.I.; DOMBROVSKIY, A.V.

Syntheses based on diene condensation. Part 3: 2-Methyl-laryl- and 2,3-dimethyl-arylanthraquinones. Zhur. ob. khim. 34 no.8: 2718-2721 Ag '64. (MIRA 17:9)

1. Chernovitskiy gosudarstvennyy universitet.

PASTUSHAK, N.O.; DOMBROVSKIY, A.V.

Haloarylation of unsaturated compounds by aromatic diazo compounds. Part 20: Chloroarylation of α-methylacrylonitrile. Zhur. ob. khim. 34 no.9:3110-3115 S '64. (MIRA 17:11)

1. Chernovitskiy gosudarstvennyy universitet.

NAYDAN, V.M.; DOMBROVSKIY, A.V.

Haloarylation of unsaturated compounds by diazo compounds. Part 21: 1,1-dichloro-2-(p-nitrophenyl)ethane and p-nitrophenylacetaldehyde. Zhur. ob. khim. 34 no.10:3351-3352 O '64.

(MIRA 17:11)

1. Chernovitskiy gosudarstvennyy universitet.

DOMBROVSKIY, A.V.; TASHCHUK, K.G.

Haloarylation of unsaturated compounds by aromatic diazo compounds. Part 22: Mechanism of arylation. Zhur. ob. khim. 34 no.10:3353-3354 O '64. (MIRA 17:11)

1. Chernovitskiy gosudarstvennyy universitet.

L 38289-65 EPF(c)/EWP(j)/EWT(m) Pc-4/Pr-4 RM

ACCESSION NR: AP5011026 UR/0079/64/034/011/3741/3743

AUTHOR: Dombrovskiy, V. A.; Shevchuk, K. I.; Dombrovskiy, A. V.

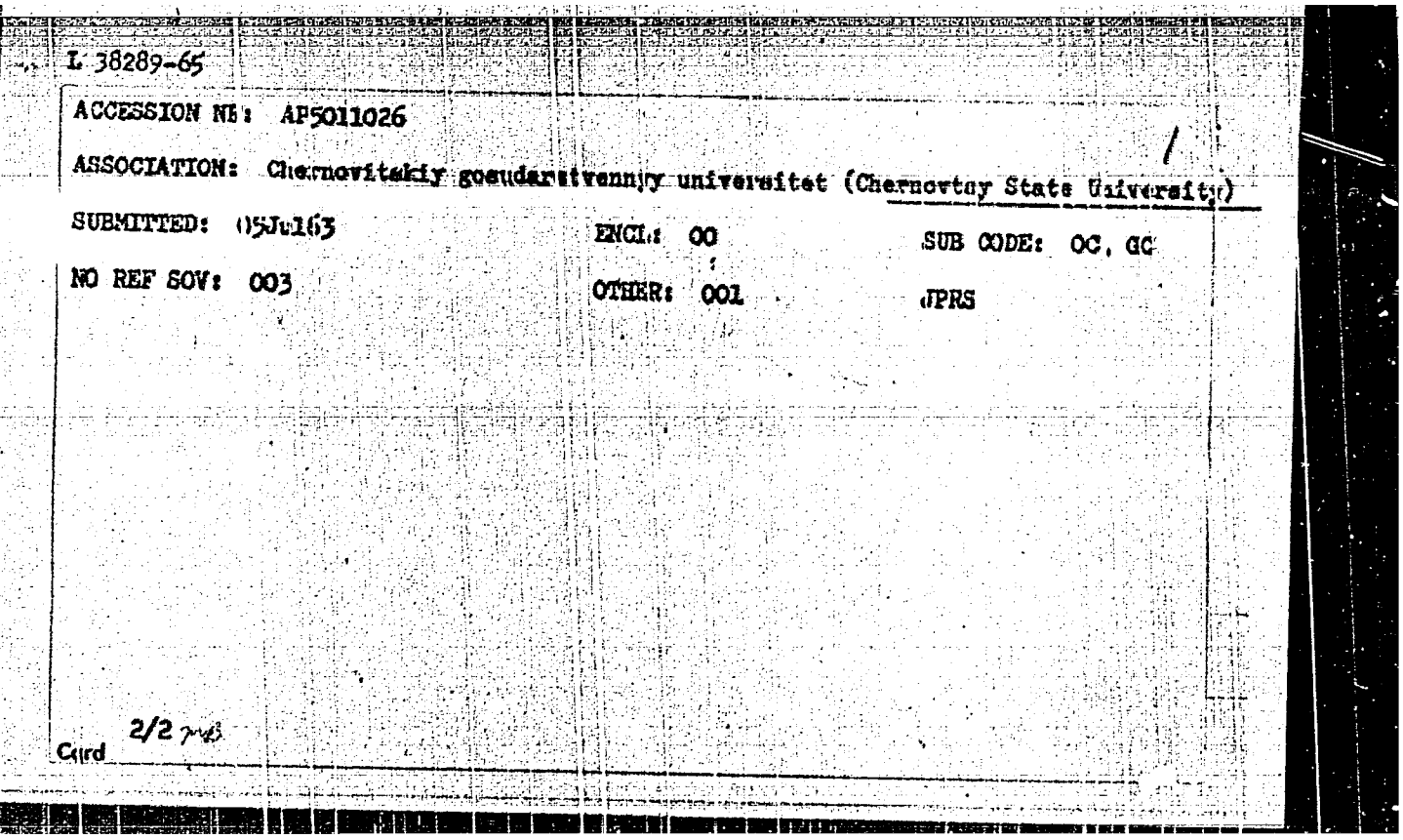
TITLE: p-Terephthaloyl-bis-methylenetriphenylphosphorance on the basis of p-diethylbenzene

SOURCE: Zhurnal obshchey khimii, v. 34, no. 11, 1964, 3741-3743

TOPIC TAGS: benzene, acetic acid, brominated organic compound, bromine, organic phosphorus compound

Abstract: The reaction of p-diacetylbenzene in anhydrous acetic acid with bromine produced alpha, alpha-dibromo-p-diacetylbenzene, which reacted with triphenylphosphine to form a diquaternary salt -- bis-alpha,alpha'-triphenylphosphonium p-diacetyl bromide; the latter reacted readily with sodium ethylate undergoing dehydrobomination and giving p-terephthaloyl-bis-methylenetriphenylphosphorane. The latter, interacting with benzaldehyde, gave p-bis-cinnamoylbenzene, which was also produced by condensation of p-diacetylbenzene with benzaldehyde. The diketone character of the product was confirmed by the formation of bis-phenyl- or -2,4-dinitrophenylhydrazones. Orig. art. has 7 formulas and 4 graphs.

Card 1/2



L 38289-65

ACCESSION NR: AP5011026

ASSOCIATION: Chernovitskiy gosudarstvennyy universitet (Chernovtsy State University)

SUBMITTED: 05Jul63 ENCL: 00 SUB CODE: OC, GC

NO REF SOV: 003 OTHER: 001 JPRS

Card 2/2 pgs

PASTUSHAK, N.O.; DOMBROVSKIY, A.V.

Production of some unsaturated aliphatic-aromatic aldehydes by the reduction of β-arylacrylic nitriles. Zhur.org.khim. 1 no.2: 323-325 F '65. (MIRA 18:4)

1. Chernovitskiy gosudarstvennyy universitet.

SENYAVINA, L.B.; SHEYNKER, Yu.N.; ZHELTOVA, V.N.; DOMBROVSKIY, A.V.; SHEVCHUK, M.I.

Infrared spectra of aroylmethylenetriphenylphosphoranes and their salts. Izv. AN SSSR. Ser. khim. no.5:895-898 '65. (MIRA 18:5)

1. Institut khimii prirodnykh soyedineniy AN SSSR.

KABACHNIK, M.I.; MASTRYUKOVA, T.A.; MELENT'YEVA, T.A.; DOMBROVSKIY, A.V.; SHEVCHUK, M.I.

Conjugation in the systems with a tetrahedral phosphorus atom. Part 1: Substituted benzoyltriphenylphosphinomethylenes. Teoret. i eksper. khim. 1 no.2:265-269 Mr-Ap '65. (MIRA 18:7)

1. Institut elementoorganicheskikh soyedineniy AN SSSR, Moskva i Chenovitskiy gosudarstvennyy universitet.

PASTUSHAK, N.O.; DOMBROVSKIY, A.V.; MUKHOVA, A.N.

Haloarylation of unsaturated compounds by aromatic diazo compounds. Part 23: Chloroarylation of α,β-chloromethylacrylate and the production of α,β-unsaturated acids and esters. Zhur.org.khim. 1 no.3:572-575 Mr '65. (MIRA 18:4)

1. Chernovitskiy gosudarstvennyy universitet.

TOLOCHKO, A.F.; LOMBROVSKIY, A.V.

Synthesis of ethyl esters of α,β-unsaturated acids by the PO-olefination method. Ukr.khim.zhur. 31 no.2:220-223 '65. (MIRA 18:4)

1. Chernovitskiy gosudarstvennyy universitet.

GRIGORENKO, A.A.; SHEVCHUK, M.I.; DOMBROVSKIY, A.V.

Bromo derivatives of aroylmethylenetriphenylphosphoranes. Zhur. ob. khim. 35 no.7:1227-1231 Jl '65. (MIRA 18:8)

1. Chernovitskiy gosudarstvennyy universitet.

NAYDAN, V.M.; DZUMEDZEY, N.V.; DOMBROVSKIY, A.V.

Haloarylation of unsaturated compounds by aromatic diazo compounds. Part 25: Chloroarylation of vinyl chloride, 1,1-dichloro-2-arylethanes, β-chlorostyrenes, and 2-arylmethyldioxolanes. Zhur. org. khim. 1 no.8:1377-1383 Ag '65. (MIRA 18:11)

1. Chernovitskiy gosudarstvennyy universitet.

NAYDAN, V.M.; DOMBROVSKIY, A.V.

Haloarylation of unsaturated compounds with aromatic diazo compounds. Part 28: Chloroarylation of trichloroethylene. 1,1,1,2-Tetrachloro-2-arylethanes, α,β-trichlorostyrenes, and β,β-dichlorostyrenes. Zhur. org. khim. 1 no.11:1998-2002 N '65. (MIRA 18:12)

1. Chernovitskiy gosudarstvennyy universitet. Submitted December 19, 1964.

TASHCHUK, K.G.; DOMBROVSKIY, A.V.

Haloarylation of unsaturated compounds with aromatic diazo compounds. Part 27: Chloroarylation of styrene. Preparation of stilbenes. Zhur. org. khim. 1 no.11:1995-1998 N '65. (MIRA 18:12)

1. Chernovitskiy gosudarstvennyy universitet. Submitted December 19, 1964.

L 39797-66 EWT(m)/EWP(j) RM/GD-2

ACC NR: AP6012080 SOURCE CODE: UR/0062/65/000/005/0895/0898

AUTHOR: Senyavina, L. B.; Sheynker, Yu. N.; Zheltova, V. N.; Dombrovskiy, A. V.; Shevchuk, M. I.; Kabachnik, M. I.; Mastryukova, T. A.; Melent'yeva, T. A.

ORG: Institute of the Chemistry of Natural Compounds, AN SSSR (Institut khimii prirodnykh soyedineniy AN SSSR)

TITLE: Infrared spectra of aroylmethylenetriphenylphosphoranes and their salts

SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 5, 1965, 895-898

TOPIC TAGS: IR spectrum, organic salt, organic phosphorous compound, electron donor, cyclic group

ABSTRACT: The integral intensities of the carbonyl absorption in the infrared spectra of aroylmethylenetriphenylphosphoranes (in which the carbonyl group is bonded to a phenyl ring) and their salts were measured. The data were considered from the standpoint of electron donor and electron acceptor properties of the phosphorus atom and the aromatic rings of the aroyl group, as well as the influence of substituents in the aromatic ring on the absorption intensity. The addition of an aromatic group to the carbonyl in phosphoranes led to a decrease in the frequency and intensity of the valence vibration of the carbonyl group in comparison with the corresponding aliphatic derivatives, evidently as a result of the functioning of the aromatic ring as an electron acceptor, competing with the carbonyl group for electrons from the strong electron-donor phosphorus atom. The frequency and in-

Card 1/2 UDC: 543.422

L 30797-66

ACC NR: AP6012080

tensity of the C=O vibration are also determined by the configuration of the molecule, determined in turn by the size of the substituent at the carbonyl group. In phosphorane salts, the tetracovalent positive phosphorus plays the role of an electron acceptor, resulting in a sharp drop in the intensity of the C=O band in comparison with phosphoranes. The absorption bands in the region of 1317-1390 cm^{-1} for arylmethylenetriphenylphosphoranes and 1389-1412 cm^{-1} for aroylmethyltriphenylphosphoranes were tentatively assigned to the vibration of the P=C band. Orig. art. has: 2 tables. [JPRS]

SUB CODE: 07 / SUBM DATE: 20Jul64 / ORIG REF: 005 / OTH REF: 004

Card 2/2 mcp

SHEVCHUK, M.I.; GRIGORENKO, A.A.; DOMBROVSKIY, A.V.

Synthesis of α-cyanoaroylmethylenetriphenylphosphoranes. Zhur. ob.khim. 35 no.12:2216-2220 D '65. (MIRA 19:1)

1. Chernovitskiy gosudarstvennyy universitet. Submitted December 30, 1964.

L 25605-66 EWT(m)/EWP(j) RM

ACC NR: AP6016703 SOURCE CODE: UR/0079/65/035/012/2216/2220

AUTHOR: Shevchuk, M. I.; Grigorenko, A. A.; Dombrovskiy, A. V. 27 B

ORG: Chernovitsy State University (Chernovitskiy gosudarstvennyy universitet)

TITLE: Synthesis of alpha-cyanoaroylmethylenetriphenylphosphoranes 7

SOURCE: Zhurnal obshchey khimii, v. 35, no. 12, 1965, 2216-2220

TOPIC TAGS: organic synthetic process, organic phosphorus compound, organic nitrogen compound

ABSTRACT: Aroylmethylenetriphenylphosphoranes (AMTP) add one mole of bromine to form bromophosphinic salts in practically quantitative yields which are converted into the alpha-bromoaroylmethylenetriphenylphosphoranes by dehydrobromination. In the present work data are presented which were obtained in the study of the not previously described reaction of AMTP with bromocyanogen. It was established that these substances, heated in a benzene solution, react to give alpha-cyanoaroylmethylenetriphenylphosphoranes, $(C_6H_5)_3P = C(CN)-CO-Ar$, and the quarternary salts, aroylmethylenetriphenylphosphonium bromides which were obtained and described previously by one of the authors.
The infrared absorption spectra of the alpha-cyanaroylmethyltriphenylphosphoranes were determined, and it was shown that this group of phosphoranes has high sensitivity and does not enter the Wittig reaction with aldehydes. Orig. art. has: 1 figure and 1 table. [JPRS]

SUB CODE: 07 / SUBM DATE: 30Dec64 / ORIG REF: 005 / OTH REF: 002

Card 1/1 UDC: 547.341 : 547.491

L 31794-66 EWT(m)/EWP(j) RM

ACC NR: AP6021686 SOURCE CODE: UR/0079/66/036/003/0506/0512

AUTHOR: Grigoronko, A. A.; Shevchuk, M. I.; Dombrovskiy, A. V. 26 B

ORG: Chernovtsy State University (Chernovitskiy gosudarstvennyy universitet)

TITLE: Reactions of aroylmethylenetriphenylphosphoranes with alkyl iodides 1

SOURCE: Zhurnal obshchoy khimii, v. 36, no. 3, 1966, 506-512

TOPIC TAGS: aromatic phosphorus compound, iodide, alkyl radical, chemical reaction, chemical decomposition

ABSTRACT: The reactions of a series of aroylmethylenetriphenylphosphoranes with alkyl iodides (R = C_1-C_6) were studied. It was found that the reaction proceeds differently depending upon the nature of the alkyl iodide radical. Iodides of alpha-methylaroylmethylenetriphenylphosphoranes are formed with methyl iodide, and undergo dehydroiodination to yield a series of alpha-methylaroylmethylenetriphenylphosphoranes. Aroylmethylenetriphenylphosphoranes react with ethyl iodide and n-propyl iodide to form the corresponding alpha-alkoxystyrenetriphenylphosphonium iodides. When aroylmethylenetriphenylphosphoranes are heated with n-hexyl iodide, the latter is dehydroiodinated, resulting in the production of iodides of aroylmethylenetriphenylphosphoranes. Orig. art. has: 3 tables. [JPRS]

SUB CODE: 07 / SUBM DATE: 24Apr65 / ORIG REF: 003 / OTH REF: 002

Card 1/1 UDC: 547.558+547.22

L 06511-67 EWT(m)/EWP(j) RM
ACC NR: AP7000481 SOURCE CODE: UR/0079/66/036/006/1121/1124

GRIGORENKO, A. A., SHEVCHUK, M. I., DOMBROVSKIY, A. V., Chernovitskii State University (Chernovitskiy gosudarstvennyy universitet)

"Aroyliodomethyltriphenylphosphonium Bromides, Aroyliodomethylene- and Aroylthiocyanatomethylenetriphenylphosphoranes"

Moscow, Zhurnal Obshchey Khimii, Vol 36, No 6, 1966, pp. 1121-1124

Abstract: Aroylmethylenetriphenylphosphoranes were found to react exothermally with iodine bromide in chloroform, giving quantitative yields of colored, water-insoluble, crystalline aroyliodomethyltriphenylphosphonium bromides. The latter, when dehydrobrominated with an aqueous soda solution, are converted to aroyliodomethylenetriphenylphosphoranes. In the latter derivatives, the iodine has a tendency for nucleophilic substitution reactions; the reaction with potassium thiocyanate proceeds especially smoothly, leading to the formation of new aroylthiocyanatomethylenetriphenylphosphoranes in good yields. The ultraviolet absorption spectra of the new derivatives were studied. Orig. art. has: 1 table. [JPRS: 37,023]

TOPIC TAGS: organic phosphorus compound, brominated organic compound

SUB CODE: 07 / SUBM DATE: 07Jun65 / ORIG REF: 005

Card 1/1 UDC: 547.558.1

0903 1195

L 11398-67 EWT(m)/EWP(j) RM

ACC NR: AP7003654 SOURCE CODE: UR/0079/66/036/008/1421/1424

AUTHOR: Dombrovskiy, A. V.; Litstvan, V. N.; Grigorenko, A. A. Shovchuk, M. I.
ORG: Chernovitskiy State University (Chernovitskiy gosudarstvennyy universitet)

TITLE: Reactions of aroylmethylenetriphenylphosphoranes with acid chlorides

SOURCE: Zhurnal obshchey khimii, v. 36, no. 8, 1966, 1421-1424
TOPIC TAGS: organic phosphorus compound, nitrobenzene, nonmetallic organic derivative

ABSTRACT: The reactions of a number of aroylmethylenetriphenylphosphoranes, with the general formula $(C_6H_5)_3P{=}CHCOAr$, with acetyl, benzoyl, and p-nitrobenzoyl chlorides were studied. When benzene solutions of benzoyl-, p-toluyl-, p-chlorobenzoyl-, and p-bromobenzoylmethylenetriphenylphosphoranes were mixed with equivalent amounts of acetyl chloride or heated with benzoyl chloride in carbon tetrachloride, crystalline salts were formed, with the general formula $[(C_6H_5)_3P{-}CH{=}C(Ar)(OCOR)]Cl^-$. In the reaction with p-nitrobenzoyl chloride (heating in benzene), a transylidation reaction occurred in which 2 moles of the aroylmethylenetriphenylphosphorane reacted with 1 mole of p-nitrobenzoyl chloride, giving crystalline C-acylation products: p-nitrobenzoylaroylmethylenetriphenylphosphoranes with the general formula $(C_6H_5)_3P{=}C(COC_6H_4NO_2\text{-}p){-}COAr$, and aroylmethyltriphenylphosphonium chlorides in good yields. The formation of C-derivatives with p-nitrobenzoyl chloride, in contrast to the O-derivatives with the other chlorides tested, is explained by a substantially greater positive charge on the carbonyl carbon atom of

Card 1/2

UDC: 546.18 + 547.297

0726 0275

L 11398-67

ACC NR: AP7003654 0

p-nitrobenzoyl chloride than in the other acid chlorides, resulting in electrophilic attack on the ylide carbon atoms of the aroylmethylenetriphenylphosphorane leading to the formation of a carbon-carbon bond without transfer of the reaction center. Orig. art. has: 2 tables. [JPRS: 38,970]

SUB CODE: 07 / SUBM DATE: 25Jun65 / OTH REF: 004.

Card 2/2 jb

DOMBROVSKIY, B.A.

"Status of Anatomy in Animals in the Soviet Union on the 30th Anniversary of the Great October Revolution,"

SO: Trud Alma-Ata Vet.- Zootekh. Inst. Vol 5, 1948. pp 61-76.
From Letopis Zhurnalnykh Statey 1949.

DOMBROVSKIY, B.A.

System of peripheral nerves and the innervation of organs. Vest. AN Kazakh. SSR 12 no.10:69-86 O '56. (MLRA 9:12)
(NERVOUS SYSTEM)

DOMBROVSKIY, B.A.

[Principles of comparative animal morphology] Osnovy sravnitel'noi morfologii zhivotnykh. Alma-Ata, Kazakhskii gos. univ., 1961. 194 p. (MIRA 18:3)

DOMBROVSKIY, B.A.; KABYLBAYEVA, R.Sh.

Materials on the morphology of the respiratory system of terrestrial vertebrates. Uch. zap. Kazakh. un. 41 :5-19'61.
(MIRA 16:6)

(RESPIRATORY ORGANS—VERTEBRATES)

DOMBROVSKIY, B.A., akademik

From the editor. Trudy Inst. fiziol. AN Kazakh. SSR. 4:3-7 '63. (MIRA 17:10)

1. Akademiya nauk Kazakhskoy SSR.

LOMBROVSKIY, B.A., akademik

Functional morphology of vascular and nervous systems in vertebrates. Trudy Inst. fiziol. AN Kazakh. SSR. 4:8-20 '63.
(MIRA 17:10)

DOMBROVSKIY, G.A., (Khar'kov)

Approximate integration of the equations of one-dimensional unsteady gas flow. Izv. AN SSSR. Mekh. i mashinostr. no.6: 111-115 N-D '63. (MIRA 17:1)

DOMBROVSKIY, G. A., Engineer-Captain

"Investigation of the Motion of Gas With Subsonic Velocities." Sub 17 Jan 51, Military Red Banner Order of Lenin Aeronautical Engineering Academy imeni N. Ye. Zhukovskiy

Dissertations presented for science and engineering degrees in Moscow during 1951

SO: Sum. No. 480, 9 May 55

DOMBROVSKIY, G. A.

Among the papers presented by the First All-Union Conference on Aerohydrodynamics (8-13 Dec 1952) convened by the Institute of Mechanics, Academy of Sciences USSR, was:

"The Problem of Supersonic Flow of Gas From a Nozzle" by Dombrovskiy, G. A.

SO: Izvestiya AN USSR, Otdeleniye Tekhnicheskikh Nauk, No. 6, Moscow, June 1953, (W-30662, 12 July 1954

DOMBROVSKIY, G.A.

USSR/ Mathematics - Aerodynamics

Card 1/1 Pub. 22 - 8/46

Authors : Dombrovskiy, G. A.

Title : Regarding the question on the integration of the equations of a stabilized plane parallel potential movement of a compressible liquid

Periodical : Dok. AN SSSR 103/1, 31-34, Jul 1, 1955

Abstract : Various cases of integration of the equations expressing a relation between the velocity potential (φ) and the function of a gas flow (φ) are presented. The density of a gas (ρ) and its pressure are in the following relationship: $p = p(\rho)$. The subsonic and supersonic velocities of a gas are considered separately. Thirteen references: 4 Fr. and 9 USSR (1935-1954).

Institution : The Acad. of Sc., USSR, Mathematical Institute imeni V. A. Steklov

Presented by : Academician L. I. Sedov, March 22, 1955

DOMBROVSKIY, G.A.

Approximate solution for a problem on subsonic circulationless gas flow past shaped bodies. Dokl.AN SSSR 103 no.5:777-779 Ag '55. (MLRA 9:1)

1.Matematicheskiy institut imeni V.A.Steklova Akademii nauk SSSR. Predstavlene akademikom L.I.Sedovym.
(Gas flow) (Fluid mechanics)

DOMBROVSKIY, G.A.

Approximate solution of a problem on subsonic flow past a shaped body taking circulation into account. Dokl.AN SSSR 103 no.6:985-987 Ag '55. (MLRA 9:1)

1.Matematicheskiy institut imeni V.A.Steklova Akademii nauk SSSR. Predstavleno akademikom V.I.Smirnovym.
(Gas flow) (Fluid mechanics)

DOMBROVSKIY, G. A.

124-11-12512

Translation from: Referativnyy Zhurnal, Mekhanika, 1957, Nr 11, p 29 (USSR)

AUTHOR: Dombrovskiy, G. A.

TITLE: Approximate Calculation Methods for Steady Two-Dimensional Gas Flow. (Metody priblizhennogo resheniya ploskikh zadach ob ostanovivshikhsya dvizheniyakh gaza)

PERIODICAL: Tr. 3-go Vses. matem. s"yezda. Vol 1. Moscow, A N SSSR, 1956, p 203

ABSTRACT: The paper relates to subsonic gas flow. As in the approximate Chaplygin method, the problem of a gas flow is reduced to a boundary problem of the theory of the function of a complex variable. The relationship between the pressure p and the density ρ, according to the approximate equations derived here, is closer to the adiabatic than according to Chaplygin's method.

The method affords solutions for a number of problems in gas-dynamics.

(Author's Abstract)

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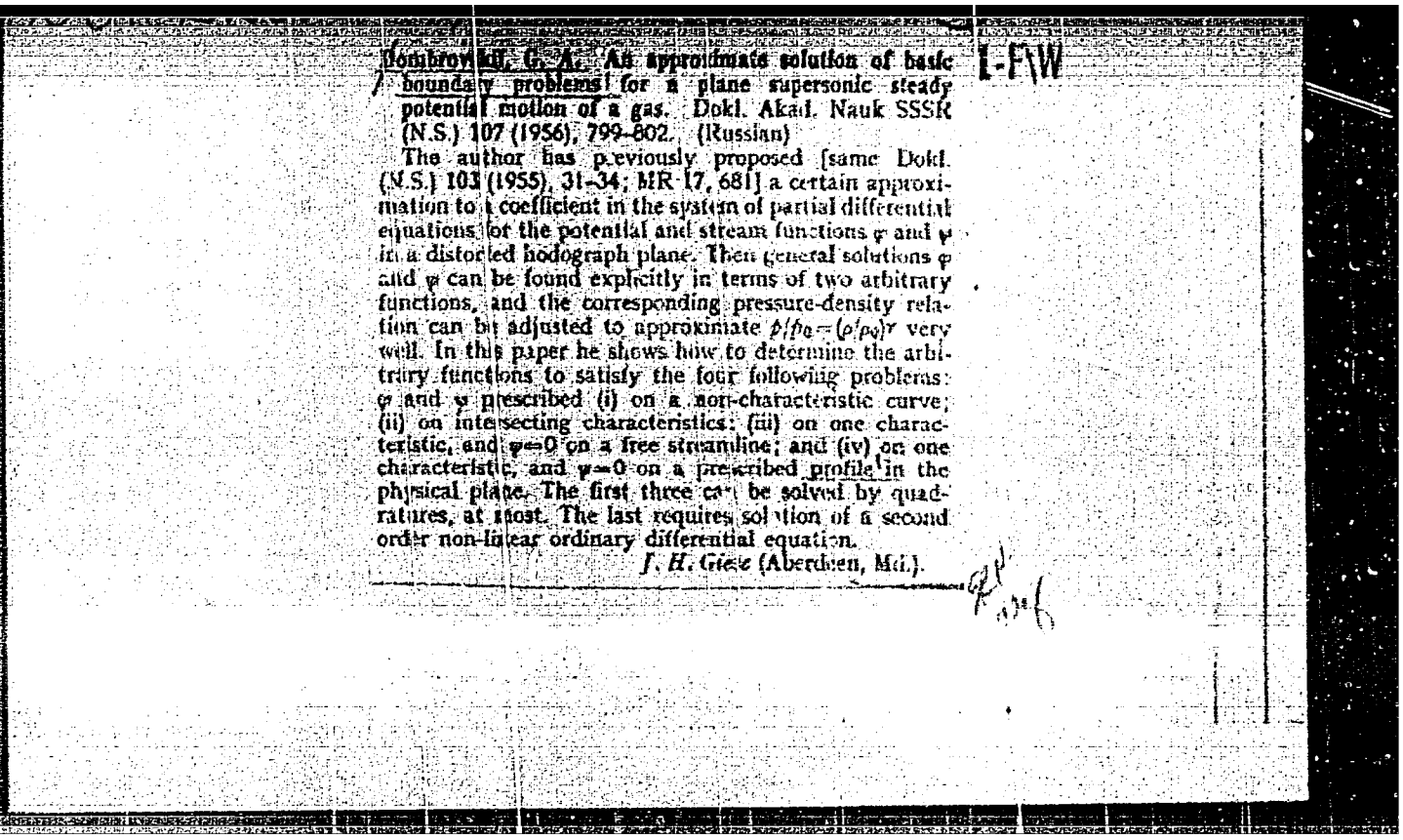


Dombrovskiĭ, G. A. An approximate solution of basic boundary problems for a plane supersonic steady potential motion of a gas. Dokl. Akad. Nauk SSSR (N.S.) 107 (1956), 799–802. (Russian)

The author has previously proposed [same Dokl. (N.S.) 103 (1955), 31–34; MR 17, 681] a certain approximation to a coefficient in the system of partial differential equations for the potential and stream functions φ and ψ in a distorted hodograph plane. Then general solutions φ and ψ can be found explicitly in terms of two arbitrary functions, and the corresponding pressure-density relation can be adjusted to approximate $p/p_0=(\rho/\rho_0)^\gamma$ very well. In this paper he shows how to determine the arbitrary functions to satisfy the four following problems: φ and ψ prescribed (i) on a non-characteristic curve; (ii) on intersecting characteristics; (iii) on one characteristic, and $\psi=0$ on a free streamline; and (iv) on one characteristic, and $\psi=0$ on a prescribed profile in the physical plane. The first three can be solved by quadratures, at most. The last requires solution of a second order non-linear ordinary differential equation.

J. H. Grace (Aberdeen, Md.).

DOMBROVSKIY, G.A.

SUBJECT USSR / PHYSICS CARD 1 / 2 PA - 1976
AUTHOR DOMBROVSKIJ,G.A.
TITLE On the Beam-Like Flow (with Subsonic Velocity) round a Lattice consisting of Plane Plates.
PERIODICAL Dokl.Akad.Nauk 111,fasc.2, 312-315 (1956)
Issued: 1 / 1957

In the plane $Z = X + iY$ an infinite lattice with the period $le^{i\gamma}$ is investigated which consists of plane plates of the length L. At first a formula for the complex potential w in case of the jet-like flow round such a lattice by a compressible liquid is given. By a certain image of the flow contained in a period (of the lattice ?) a semicircle is obtained as the domain of the flow.
In connection with the present investigation of the flow a subsonic-like gas flow round a lattice of plane plates, not the exact method by S.A.CAPLYGIN, O gasovych strujach (= on gas jets)(1949) is used, but a more simple method with approximation ansatz. Instead of the exact equations for the velocity potential φ and for the flow function Ψ the approximated equations

$\partial\varphi/\partial\Theta = \left[n \text{ the } m\,(s-s_o)\right]^2 \partial\Psi/\partial s$, $\partial\varphi/\partial s = -\left[n \text{ th } m(s-s_o)\right]^2 \partial\Psi/\partial\Theta$ are used

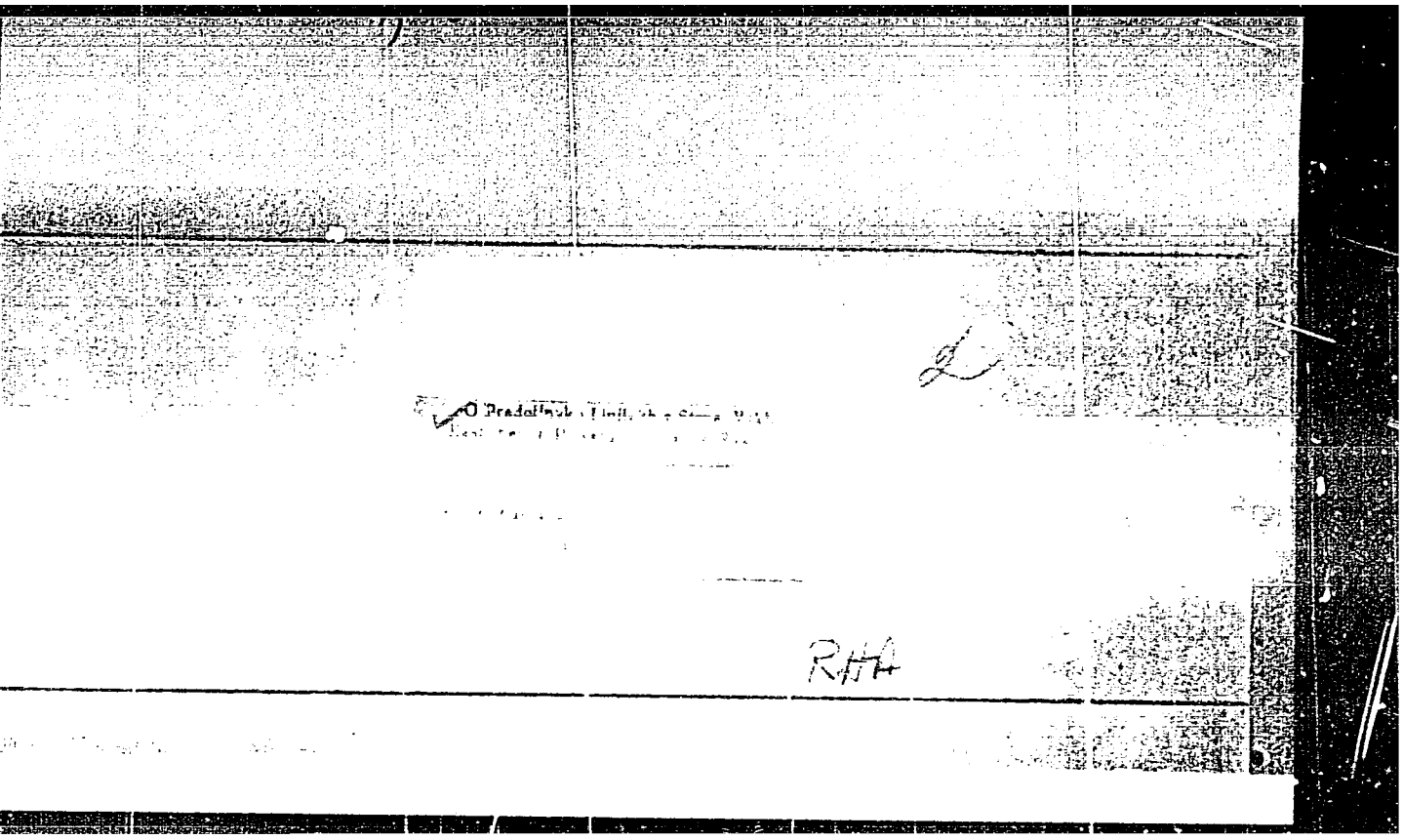
here Here s denotes a variable instead of the velocity modulus; Θ - the angle of inclination of the velocity vector, m, n, and s_o - any constant. Next, the relations for the connection between the quantity $s_1 = s - s_o$ on the one hand and the density ϱ, the velocity v as well as the pressure p are explicitly written down. The arbitrary constants m,n,s_o, A,B and C are determined from the

Dokl.Akad.Nauk 111, fasc.2, 312-315 (1956) CARD 2 / 2 PA - 1976

condition for the best approximation to the adiabatic flow of a gas. The general solutions of the above mentioned equations are expressed by any analytic function F of the complex variable $\zeta = s - i(\theta)$ as follows: $\varphi = nRe(-mF+th\ ms_1 dF/d\zeta)$, $\Psi = (1/n)\ Im(-mF + cth\ ms_1\ dF/d\zeta)$. Next, an expression for transition to the physical plane of the gas flow is given. If we put $e^{\zeta} = \zeta = Ve^{-i\theta}$ the motion of a gas is represented in the ζ-plane on a semicircle. The boundary of the semicircle corresponds to a flow line upon which it is assumed that $\Psi = 0$. The solution of this problem is set up in form of a sum. By inserting this solution ansatz into the above mentioned general solutions for φ and Ψ the required functions φ and Ψ with logarithmic singularities are obtained which are analogous to the singularities in the case of a corresponding flow of an incompressible liquid. The formulae found are explicitly given. The gas flow investigated is periodic.
The method of constructing logarithmic source-like and vortex-like singularities which are demonstrated here on the basis of a concrete example is also suited for the solution of other problems connected with gas jets.

INSTITUTION: Mathematical Institute "V.A.STEKLOV" of the Academy of Science in the USSR.

DOMBROVSKIY, G. A., Doc Phys-Math Sci -- (diss) "Study of steady plane-parallel potential flows with high velocities," Mos, 1957. 8 pp 20 cm. (Acad Sci USSR. Math Inst im V. A. Steklov), 110 copies. (KL, 24-57, 115)



RHH

AUTHOR: DOMBROVSKIY,G.A. (Moscow) PA - 3084

TITLE: Concerning the Construction of a Flat Nozzle According to the Distribution of the Supersonic Velocities along the Walls. (O postroyenii ploskogo sopla po raspredeleniye sverkhzvukovykh skorostey vdol' stenok, Russian)

PERIODICAL: Izvestiia Akad.Nauk SSSR, Otdel.Tekhn. 1957, Vol 21, Nr 3, pp 163-164 (U.S.S.R.)

Received: 6 / 1957 Reviewed: 7 / 1957

ABSTRACT: This problem was solved by TUMASHEV in "Izvestiya Kazanskogo filiala AN SSSR", 1950, Nr 2 with the help of the approximated method of S.A.KHRISTIANOVICH (PMN, Vol 11, Nr 2, 1947). Here an approximated method proposed by DOMBROVSKIY in Doklady Akademii Nauk SSSR, 1955, Vol 103, Nr 1, and 1956, Vol 107, Nr 6 and in other works is recommended. The exact equations were replaced by approximated ones and a general solution given. The free selection of the arbitrary constants A, B, m and n were used in order to find a sufficiently high approximation for the adiabatic flow of the gas. The required dependence η on ζ along the wall was produced in the form $\eta = h(\zeta)$. $\zeta = \frac{1}{2}(t - \vartheta)$ and $\eta = \frac{1}{2}(t + \vartheta)$, where ϑ is the angle of inclination of the velocity vector and t is a variable quantity

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Concerning the Construction of a Flat Nozzle According to the Distribution of the Supersonic Velocities along the Walls.

which stands in relation to the density ρ and the velocity v. For η and ξ the arbitrary functions $f_2(\eta)$ and $f_1(\xi)$ were written down and $f_1(\xi)$ is differentiated with respect to ξ. Then a differential equation for the determining of $\eta = h(\xi)$ is derived. The function f_2 was determined from the condition $\xi = \xi_0$. As soon as the relation $\eta = h(\xi)$ is established, the solution for the investigated domain can be found with the help of the general solution first set up and the equations for $f_1(\xi)$ and $f_2(\eta)$. (1 Illustration and 6 Citations from Slav Publications).

ASSOCIATION: Not given
PRESENTED BY:
SUBMITTED: 8.10.1956
AVAILABLE: Library of Congress

Card 2/2

DOMBROVSKIY, G.A.

AUTHOR DOMBROVSKIY G.A. PA - 2647

TITLE On a Periodicity of a Jet Coming Out of a Symmetrical Nozzle Under Rated Conditions.
(O periodichnosti strui, vykhodyashchey iz simmetrichnogo sopla na raschetnom rezhime -Russian)

PERIODICAL Doklady Akademii Nauk SSSR, 1957, Vol 113, Nr 1, pp 58-61 (U.S.S.R.)

Received 5/1957 Reviewed 6/1957

ABSTRACT The present work examines the plane problem of the supersonic outflow of a gas from a symmetric nozzle and the problem of the periodicity of the jet if there are no compression jumps in the flow. With the analytical approximations methods applied the CHAPLYGIN function $K_1(t)$ in the equations $\partial\varphi/\partial\xi = -\sqrt{K_1}\,\partial\psi/\partial\xi$, $\partial\varphi/\partial\eta = \sqrt{K_1}\,\partial\psi/\partial\eta$ is replaced by more simple functions. In the equations just given, ψ - the flow function, and for the characteristic variables $\xi = (1/2)(t-\vartheta)$, $\eta = (t+\vartheta)/2$ applies. Here ϑ denotes the angle of inclination of the velocity vector towards the X-axis and t a variable instead of the velocity modulus. The motion of the gas in the nozzle is assumed to be known. Because of the symmetry with respect to the x-axis only the upper half of the motion need be examined. At K_1 = const $\psi = f_1(\xi) - f_2(\eta)$ applies, where $f_1(\xi)$ and $f_2(\eta)$ denote arbitrary functions of the characteristic variables. The functions are determined by successive solution of the boundary problems. The solution found in this way for the various domains are explicitly given. At K_1 = const (i.e. if the adiabatic in the plane pressure - specific vo-

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On a Periodicity of a Jet Coming Out of a Symmetrical Nozzle Under Rated Conditions. PA - 2647

lume is replaced by a straight line), the gas jet coming out of the nozzle has a strongp eriodic character. The accuracy of the solution is increased by the application of the approximation method by S.A.KHRISTIANOVICH (Priklad.mat. i mekh, Vol 11, 2 (1947) (where K_1 = const.t^4) is assumed). In the case of sufficiently low values of γ the gas jet is of a nearly periodical structure. In conclusion it is shown that by the application of a method formerly suggested by the author aperiodic solution cannot be obtained. At a sufficiently great distance from the nozzle, however, a steady potential flow cannot exist.
(2 ill.)

ASSOCIATION Mathematical Institute V.A.STEKLOV of the Academy of Science of the USSR.
PRESENTED BY
SUBMITTED 1.1o.1956
AVAILABLE Library of Congress
Card 2/2

10.5000

26.2161

87786
S/040/60/024/005/009/028
C111/C222

AUTHOR: Dombrovskiy, G.A. (Khar'kov)

TITLE: Supersonic Gas Flow Out of a Jet Into a Low-Pressure Area

PERIODICAL: Prikladnaya matematika i mekhanika, 1960, Vol.28, No.5, pp.879-884

TEXT: According to the method proposed in (Ref.8) the author investigates the Prandtl problem on the supersonic gas flow out of a plane jet into a low-pressure area. The author especially considers questions combined with the appearance of shock waves in the jet.

If $\xi = \frac{t-\theta}{2}$, $\eta = \frac{t+\theta}{2}$ are the characteristic variables, t is a variable replacing the amount of velocity, θ is the angle of inclination of the velocity with respect to the x-axis, $K_1(t) = (n \operatorname{tg} m t)^4$ is the Chaplygin's function then, according to (Ref.8), for the velocity potential φ and the flow function ψ one obtains the expressions

$$\varphi = n\left\{-m\left[f_1(\xi)+f_2(\eta)\right]+\frac{1}{2}\operatorname{tg} m(\xi+\eta)\left[f_1'(\xi)+f_2'(\eta)\right]\right\}$$

(1.3)
$$\psi = n^{-1}\left\{m\left[-f_1(\xi)+f_2(\eta)\right]+\frac{1}{2}\operatorname{ctg} m(\xi+\eta)\left[-f_1'(\xi)+f_2'(\eta)\right]\right\},$$

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Supersonic Gas Flow Out of a Jet Into a Low-Pressure Area

where $f_1(\xi)$, $f_2(\eta)$ can be determined from the boundary conditions, and n and m are arbitrary constants.

Fig. 1

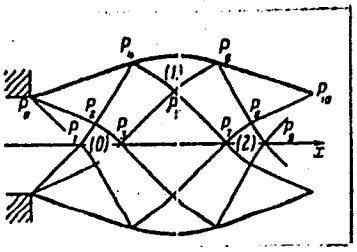
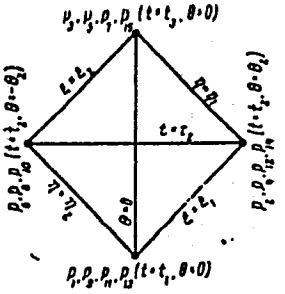


Fig. 2



The characteristic regions in which $f_1(\xi)$ and $f_2(\eta)$ shall be determined are shown in figure 1 (physical flow plane) and figure 2 (t,θ-plane). Here it is assumed that

(1.9) $2t_2 - t_1 < \pi/2m$ $(t_3 = 2t_2 - t_1)$

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C111/C222

Supersonic Gas Flow Out of a Jet Into a Low-Pressure Area

is satisfied, where t_1 is the t-value at the end of the jet, t_2 is the constant t-value on the surface of the jet and in $P_0P_2P_4$ and $P_6P_8P_{10}$. At the end of the jet there appear centered waves. Putting $\psi = Q$ in P_0 and on the surface of the jet, where Q is the value of the flow function in the center, and $\psi = 0$ on the axis of symmetry, then at first one obtains

$$\psi_{P_1P_2} = Q\left(1 - \frac{\operatorname{tg} mt_1}{\operatorname{tg} m(\xi_1+\eta_1)}\right). \tag{2.3}$$

Then for $f_1(\xi)$ and $f_2(\eta)$ in $P_1P_2P_3$ and $P_4P_5P_6$ the results of (Ref.11) are used.
The obtained solutions are used for showing that in the jet there always appear boundary curves, in a certain finite distance from the opening of the jet the continuous potential flow becomes impossible; this statement is valid for small as well as for large differences of pressure. If (1.9) is not satisfied and if

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Supersonic Gas Flow Out of a Jet Into a Low-Pressure Area

(4.1) $t_2 \geq \frac{\pi}{4m} + \frac{t_1}{2}$ $\left(t_1 < \frac{\pi}{2m}\right)$,

then there always appears a boundary line at the right side of the characteristic curve P_4P_5.

The author mentions S.A.Khristianovich. There are 3 figures and 12 references: 6 Soviet, 3 Japanese, 2 German and 1 American.

[Abstracter's note: (Ref.8) is a paper of the author in Doklady Akademii nauk SSSR, 1955, Vol.103, No.1. (Ref.11) is a paper of the author in Sbornik "Teoreticheskaya gidromekhanika", 1954, No.12,vyp.4]

SUBMITTED: May 19, 1960

Card 4/4

GUREVICH, Maksim Isidorovich. Prinimal uchastiye DOMBROVSKIY, G.A.; SHUSTOV, S.N., red.; AKHLAMOV, S.N., tekhn. red.

[Theory of flows of an ideal liquid] Teoriia strui ideal'noi zhidkosti. Moskva, Gos.izd-vo fiziko-matem.lit-ry, 1961. 496 p. (MIRA 15:2)

(Hydrodynamics)

DOMBROVSKIY, Georgiy Arsen'yevich; SHUSTOV, S.N., red.

[Method of approximation of an adiabatic curve in the theory of two-dimensional gas flow] Metod approksimatsii adiabaty v teorii ploskikh techenii gaza. Moskva, Nauka, 1964. 158 p. (MIRA 17:10)

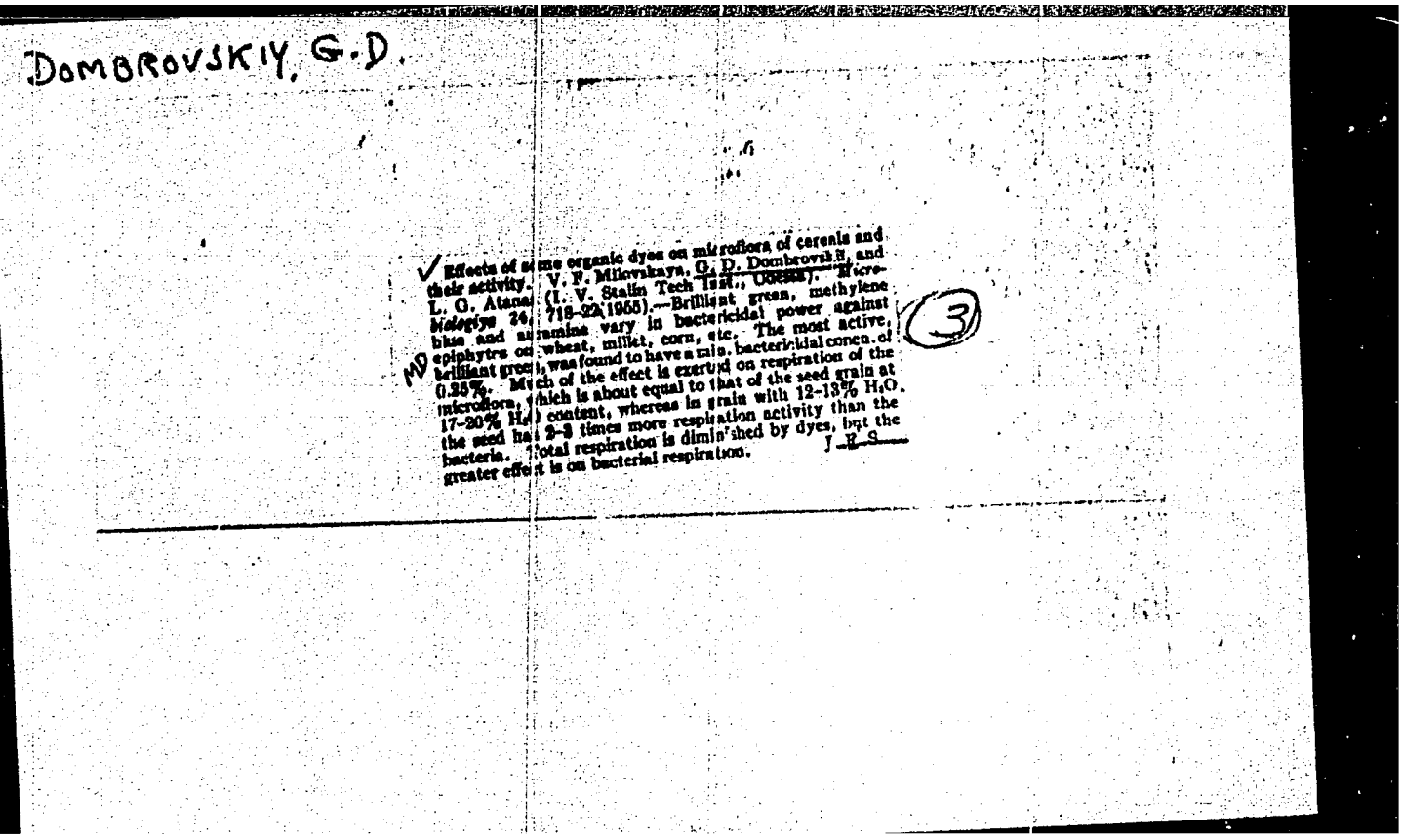
1. DOMBROVSKIY, G. D.; LENARSKIY, I. I.; DRAGUN, I. Ye.

2. USSR (600)

4. Oatmeal

7. Hydrothermic treatment as a method for improving the food values of oatmeal. Vop. pit. 12, No. 2, 1953.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.



DOMBROVSKIY, G.D.

✓ Effects of some organic dyes on microflora of cereals and their activity. V. F. Milovskaya, G. D. Dombrovskii, and L. G. Atanasova (I. V. Stalin Tech Inst., [illegible]). Mikrobiologiya 24, 718-22(1955).—Brilliant green, methylene blue and acriflavine vary in bactericidal power against epiphytic microflora of wheat, millet, corn, etc. The most active, brilliant green, was found to have a min. bactericidal concn. of 0.25%. Much of the effect is exerted on respiration of the microflora, which is about equal to that of the seed grain at 17-20% H_2O content, whereas in grain with 12-13% H_2O, the seed has 2-3 times more respiration activity than the bacteria. Total respiration is diminished by dyes, but the greater effect is on bacterial respiration. J. R. S.

MD (3)

DOMBROVSKIY, G. D.

BARER, G.O.; BELETSKIY, V.Ya.; VORONKOV, P.I.; DEMIDOV, P.G.; DZYADZIO, A.M.; DOMBROVSKIY, G.D.; ZOLOTAREV, S.M.; KRAVCHENKO, I.K.; PLATONOV, P.N.; PA[illegible]INKO, A.V.; UGOLIK, N.F.

V. IA. Girshson. Muk.-elev. prom. 23 no.4:23 Ap '57. (MLRA 10:5)
(Girshson, Vasilii IAkovlevich, 1880-1957)

MILOVSKAYA, V.F.; DOMBROVSKIY, O.F.; ATANAS, L.G.

Effect of certain organic dyes on microglora of grain and on its vitality. Mikrobiologiia 24 no.6:718-722 N-D '55. (MLRA 9:4)

1. Odesskiy tekhnologicheskiy institut imeni I.V. Stalina.
(DYES, effects,
organic dyes, on bact. & yeasts of grain)
(BACTERIA,
in grain, eff. of organic dyes)
(YEASTS,
in grain, eff. of organic dyes)
(GRAIN,
bact, & yeasts, eff. of organic dyes)

L 20983-65 EWT(d)/EWP(1) EDC(b)

S/0028/64/000/008/0042/0043

ACCESSION NR: AP5003785

AUTHOR: Anfilogov, A. D.; Belostotskiy, K. B.; Dombrovskiy, G. Ya.

TITLE: New forms of leadership in the standardization program are needed

SOURCE: Standardizatsiya, no. 8, 1964, 42-45

TOPIC TAGS: scientific conference, industrial management, precision instrument industry

Abstract: The article is a summary of a recent conference held by the Latvian Sovnarkhoz and the Authorized State Committee on Standards, Measures and Measuring Apparatus — USSR (under the Council of Ministers Latvian SSR). The conference dealt with the forms and methods of leadership in the area of standardization and normalization in the Latvian SSR, and the interrelationships between (1) standardization-normalization sections in industry and offices of the Sovnarkhoz, and (2) base organizations, state committees for the industrial branches, and the State Committee mentioned above.

The conference noted the following, in connection with the mechanization program in the Latvian SSR:

(1) Serious criticism is deserved by All-Union Scientific-Research Institute of Normalization in Machine-Building, notably in failing to secure realistic balances between new standards and the practical exigencies of industry; (2) there is frequently no proper correspondence between standards imposed on finished articles

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ACCESSION NR: AP5003705

and those imposed upon the raw materials from which they are manufactured; (3) often machine-building norms reflect obsolete designs and older technical methods; (4) the norms for other branches of industry often sharply contradict those for machine-building; and in instances where they actually correspond, delayed publication prevents the necessary adjustments in machine-building: (5) certain base organizations fail in general to concern themselves with branch standardization; and (6) partly contradictory instructions and technical materials are being issued in connection with standardization.

The conference addressed an appeal to the Communist Party — Latvia SSR and the Council of Ministers — Latvian SSR to examine the question of creating within the Latvian SSR a scientific-research organization, structurally associated with the State Committee on Standards, Measures and Measuring Apparatus — USSR, which would possess the appropriate powers for carrying out the standardization program in a manner consistent with the Latvian economic plan.

ASSOCIATION: none

SUBMITTED: 00 ENCL: 00 SUB CODE: GO

NO REF SOV: 000 OTHER: 000 JPRS

Card 2/2

DOMBROVSKIY, G.Ye.; BELOSTOTSKIY, K.B.

Conference on standardization in Latvia. Standartizatsiia 27 no.4:58-59 Ap '63. (MIRA 16:4)
(Latvia—Standardization)

KNYAZEV, D.S.; DOMBROVSKIY, G.Ye.; BELOSTOTSKIY, N.G.

Standardization control in enterprises and organizations of the Latvian S.S.R. Standartizatsiia 27 no.9:35-37 S '63. (MIRA 16:10)

ANFILOGOV, A.D.; BELOSTOTSKIY, K.B.; DOMBROVSKIY, G.Ye.

New methods for the management of standardization work are needed. Standartizatsiia 28 no.8:42-43 Ag '64.
(MIRA 17:11)

DOMBROVSKIY, I.A.

Dispensary services for tuberculous patients in rural areas. Sov. zdrav. 13 no.4:41-44 Jl-Ag '54. (MLRA 7:9)

1. Zaveduyushchiy Samarskim rayonnym otdelom zdravookhraneniya Rostovskoy oblasti.

(TUBERCULOSIS, prevention and control,
Russia, rural dispensary centers)
(OUTPATIENT SERVICES,
tubero. rural dispensary centers in Russia)
(RURAL CONDITIONS,
in Russia, rural tubero. dispensary centers)

SHIRMAN, Yakov Davidovich; KATSENELENBAUM, B.Z., kand.tekhn.nauk, retsenzent; DOMBROVSKIY, I.A., kand.tekhn.nauk, retsenzent; PERSIKOV, M.V., kand.tekhn.nauk, otv.red.; NOVIKOVA, Ye.S., red.; KARABILOVA, S.F., tekhn.red.

[Radio wave guides and cavity resonators] Radiovolnovody i ob"emnye rezonatory. Moskva, Gos.izd-vo lit-ry po voprosam sviazi i radio, 1959. 378 p. (MIRA 12:4)
(Wave guides)

L 3512-66 EWT(d)/FSS-2/EWT(l)/FS(v)-3/EEC(k)-2/EWA(h) TT/AST/GW

AM5013307 BOOK EXPLOITATION UR/

Dombrovskiy, I. A. 44,55 9 46 B+1

Radio communications satellite systems, 1963 (Radio-sistemy svyazi s iskusstvennymi sputnikami Zemli, 1963) Moscow, 1964. 289 p. illus., biblio. Errata slip inserted. 1,000 copies printed. (At head of title: Akademiya nauk SSSR. Institut nauchnoy informatsii) Series note: Itogi nauki i tekhniki

TOPIC TAGS: communications satellite, active relay passive relay, discrete source, radio emission, EM wave propagation, noise suppression, cosmic noise, space communication 12 44,55

PURPOSE AND COVERAGE: This book is intended for radio communication and electronic engineers as well as for scientific and technical personnel concerned with communications satellites. It may also be used by students taking advanced courses in related fields at schools of higher technical education. The book discusses modern trends in the development of communications satellite systems for long-distance multichannel telephone and TV transmission.

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A short history on the development of these systems in the last 10 years is given. Scientific and technical achievements in equipment design and installation are discussed. The role of radio astronomy and radio physics in designing these radio systems is noted. A systematic account is given of investigations of radio systems used for communications satellites. These are taken primarily from non-Soviet sources.

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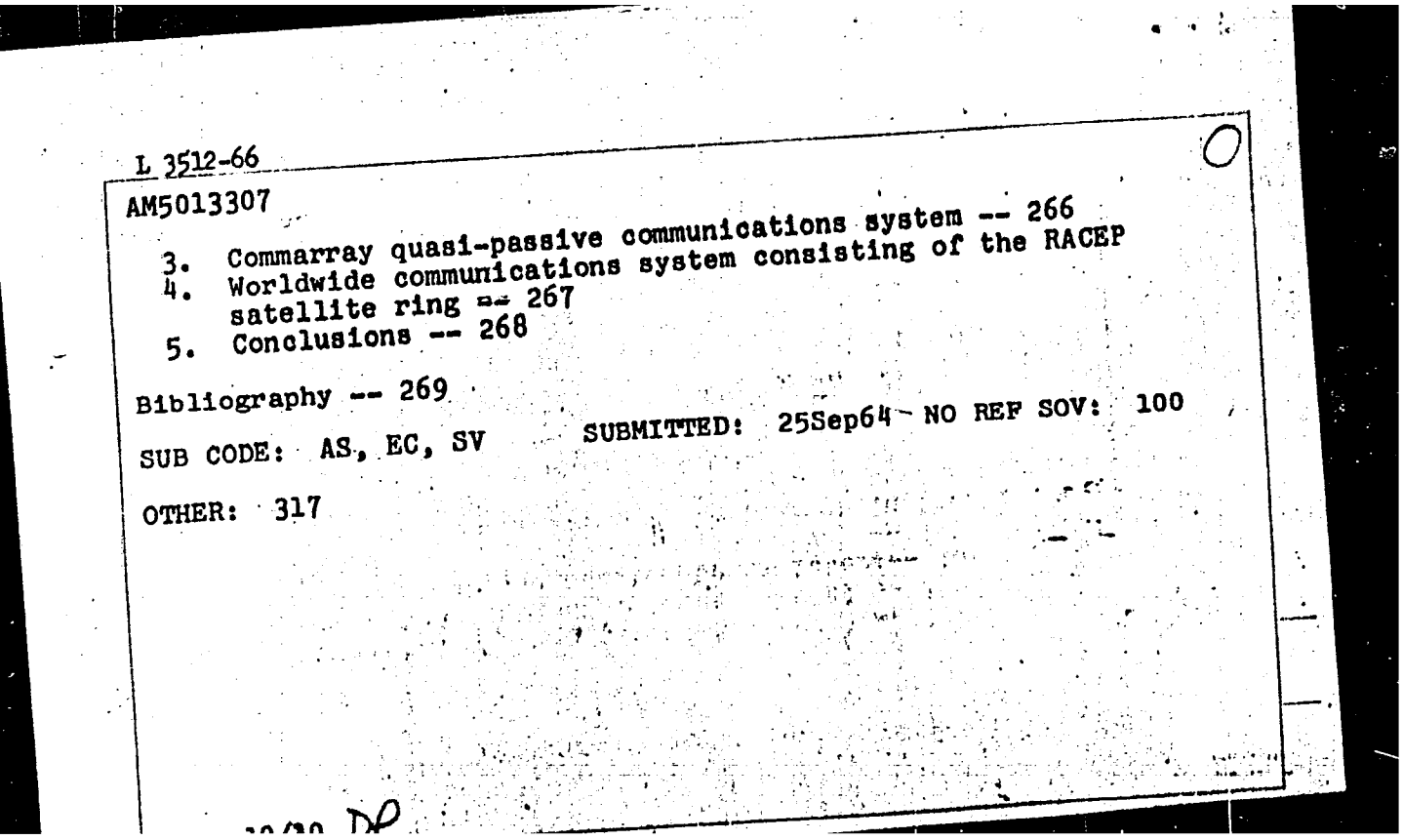

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4. Worldwide communications system consisting of the RACEP satellite ring -- 267
5. Conclusions -- 268

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SUB CODE: AS, EC, SV SUBMITTED: 25Sep64 NO REF SOV: 100

OTHER: 317

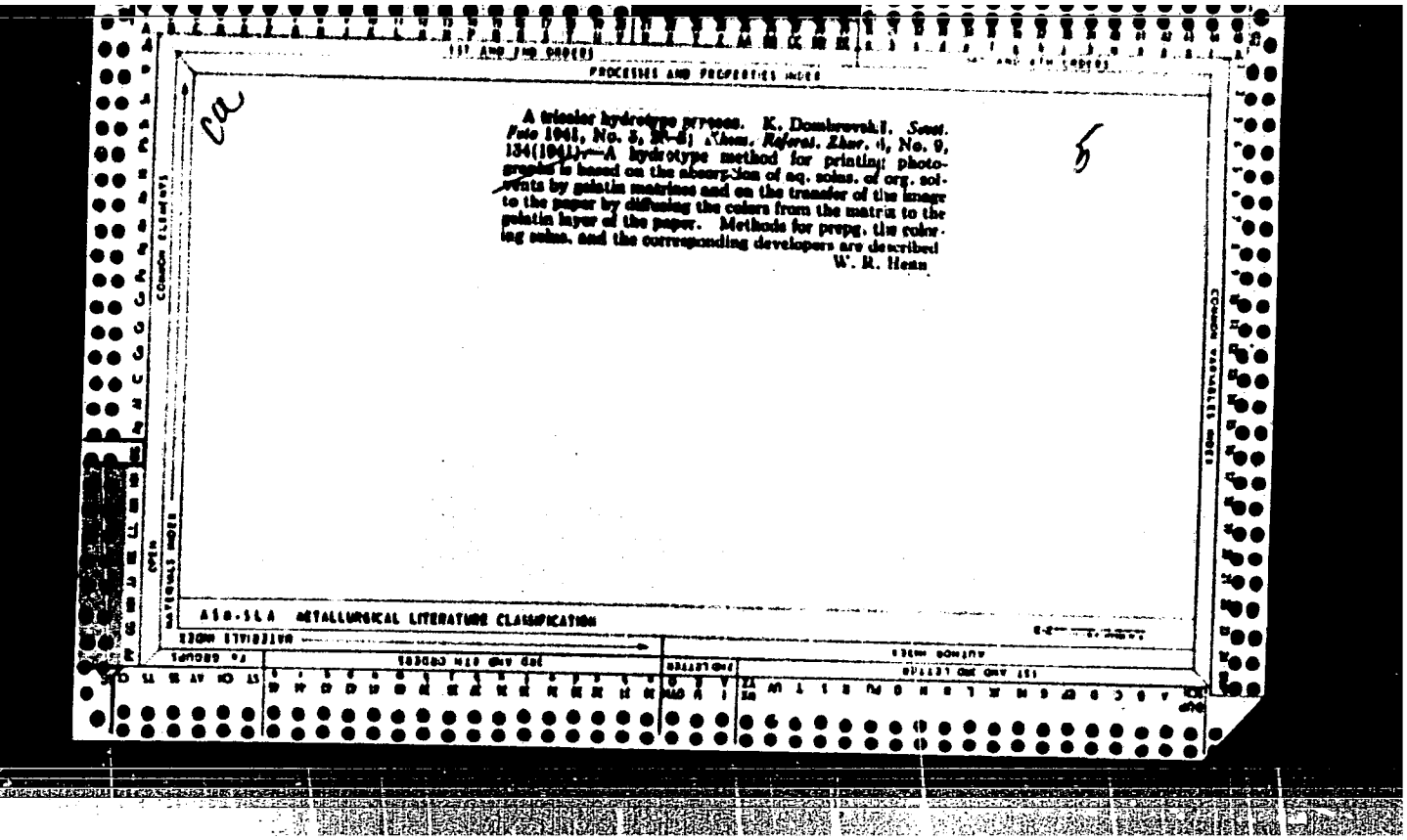
DOMBROVSKIY, I.G., professor, doktor tekhnicheskikh nauk, laureat Stalinskoy premii.

Mechanization of earthwork. Nauka i zhizn' 20 no.10:5-8 O '53. (MLRA 6:10)
(Earthwork)

DOMBROVSKIY, K.

Effect of being there. Tekh. mol. 24 no.12:20-22 D '56. (MLRA 10:2)

(Motion-pictures--Special effects)



PROCESSES AND PROPERTIES INDEX

A trichor hydrotype process. K. Dombrovskii. *Sovet. Foto* 1941, No. 3, 37–41; *Chem. Referat. Zhur.* 4, No. 9, 134(1941).—A hydrotype method for printing photographs is based on the absorption of aq. solns. of org. solvents by gelatin matrixes and on the transfer of the image to the paper by diffusing the colors from the matrix to the gelatin layer of the paper. Methods for prepg. the coloring solns. and the corresponding developers are described.
W. R. Henn

A 50-51 A METALLURGICAL LITERATURE CLASSIFICATION

DOMBROVSKIY, K.F., inzhener.

Induction frequency trunsformer. Energetik 1 no.3:30-32 Ag '53.
(MLRA 6:8)
(Electric current converters)

DOMBROVSKIY, K.F., inzhener.

Using 500 volt induction motors in 380 volt networks. Energetik 1 no.4:33-36 S '53. (MLRA 6:8)
(Electric motors, Induction)

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