

dd32492 Tue Mar 24 10:07:24 1992 14

at moments of arrival of sync. pulses from the electroneurosis appts. so that the sync. pulse repetition period equals the noise period. The sync. pulse is lagged so that there is no noise given electronic stimulation of the electroneurosis appts. at 100-200Hz.

USE/ADVANTAGE - In recording E.E.G.s in medicine, protection is provided from interference by electroneurosis appts. Bul.26/ 15.7.85 (4pp Dwg.No.1/2)

- 5-
- AN - 85-048408/08
- XRPX- N85-035841
- TI - Stomatological post operation electro-anaesthesia - by applying bipolar electric pulses of prescribed time, frequency and amplitude
- DC - S05 P34
- PA - (MOST-) MOSC MED STOMATOLOG; (MORE-) MOSC REFLEX-THERAPY INST
- IN - RUDKO VF, DUBINYAN RA, BIZYAEV AF
- NP - 1
- PN - SU1079252-A 84.03.15 (8508)
- PR - 82.07.12 82SU-474528
- AP - 82.07.12 82SU-474528
- IC - A61N-001/36
- AB - (SU1079252)

The treatment is performed with bipolar electric current pulses of 15-60mA amplitude, 1-10 Hz frequency and 15-100 microsecond length. After operations in the trigeminal nerve second branch innervation zone, the active electrode is positioned on the skin where the suborbital nerve emerges, and the passive electrode where the zygomatic arch and the vertical line from the orbit outer edge intersect. After operations in the third branch zone the active electrode is positioned in the external auditory meatus and the passive electrode on the skin where the mental nerve emerges.

USE - To reduce the quantity of analgetics required. Bul.10/15.3.84 (3pp Dwg.No.0/0)

- 6-
- AN - 84-261800/42
- XRPX- N84-195584
- TI - Method of general electro-anaesthesia - using smoothly increasing DC current, then with series of impulses of smoothly increasing amplitude
- DC - S05 P34
- PA - (LEBEV) LEBEDEV V P
- IN - LEBEDEV VP, KATSNELSON YAS, LEOSKO VA
- NP - 1
- PN - SU1074543-A 84.02.23 (8442)
- PR - 82.01.18 82SU-385722
- AP - 82.01.18 82SU-385722
- IC - A61N-001/34
- AB - (SU1074543)

The method involves acting on the brain with series of high frequency impulses. Treatment is first given with direct current smoothly increased over a period of 3-5 minutes to 6-10mA, and the treatment with series of impulses is performed with a frequency of impulses in the series of 9.5-10.5kHz, a pulse period to pulse duration ratio of 1.6-2.5 and a length of the series of 3-5 m.sec. and the amplitude of the series of impulses is smoothly increased over a period of 3-4 minutes to a value which is 0.2-0.5 of the maximum value of the direct current.

USE/ADVANTAGE - To increase the depth of narcosis without the risk of side effects. It is simple to carry-out, effective for its purpose with no side-effects.

pharmacological substances, including stability of haemo-dynamic index manipulation. Bul.7/23.2.84. (3pp Dwg.No.0/0)

- 7-
- AN - 84-131800/21
- XRAM- C84-055866
- XRPX- N84-097548
- TI - Electrical anaesthesia for surgical operations - involves introducing polyglucin before beginning of anaesthesia into patient body, to improve effects
- DC - B04 S05 P34
- PA - (GROD-) GRODZENSK MEDIC INS
- IN - ILLIN VI, GUBAR VV, MIRON AV
- NP - 1
- PN - SU-995801-A 83.02.25 (8421)
- PR - 80.07.09 80SU-986393
- AP - 80.07.09 80SU-986393
- IC - A61N-001/34
- AB - (SU-995801)

Electrical anaesthesia has improved effect by introducing polyglucin in amt. 0.5-5 ml per 1kg of the patient body mass during the 2-24 hours before anaesthesia.

The depth of anaesthesia is increased in the majority of patients during surgical operations and the additional introduction of analgesics or neuroleptia media are eliminated. Bul.6/15.2.83. (6pp Dwg.No.0/0)

- 8-
- AN - 83-N4416K/22 (N4416K)
- XRPX- N83-096836
- TI - Electro-anaesthesia using pulsed currents - involves applying constant voltage pulses to patient's forehead and neck
- DC - S05 P34
- PA - (KASTV) KASTROBIN E M
- IN - KASTROBIN EM, KORDJUEV JV
- NP - 1
- PN - US4383522-A 83.05.17 (8322)
- LA - E
- PR - 80.11.12 80US-205981
- IC - A61N-001/34
- AB - (US4383522)

The method of electroanaesthesia of a patient comprises conducting preliminary preoperative medicamentous preparation, conducting induction anaesthesia, administering muscle relaxants, conducting intubation followed by forced pulmonary ventilation, and applying D.C. pulses involving an additional constant component with the help of electrodes placed in the region of the forehead and neck of the patient.

The electrodes includes cathodes applied within the region of the forehead, and anodes applied within the region of the neck. Prior to conducting induction anaesthesia, the patient is given a treatment with constant pulse ratio pulses applied for a period of about 20 minutes at a repetition frequency within a range of 800 Hz to 1000 Hz in combination with an additional constant component of from 0.1 mA to 0.2 mA, while increasing the average current intensity of the stabilised voltage in the patient circuit up to a range of about 0.4 mA to 1.2 mA. (4pp)

- 9-
- AN - 81-J53000/37 (J53000)
- TI - Combined defibrillation and electro-narcosis appts. - has voltage source charging defibrillation capacitor supplying signal to AND-gate

26/150-22
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dd32492 Tue Mar 24 10:07:24 1992 8

BIOELECTRIC PHENOMENA

AB - IT WAS ESTABLISHED EXPERIMENTALLY THAT THE MOLE CHARGE OF BLOOD LIES BETWEEN 1.78 AND 2.82*10/SUP -9/ CGSE UNITS FOR PARTICLES OF DIAMETERS 1.6 TO 2.06 MICRONS AND MAY BE EITHER POSITIVE OR NEGATIVE. THE ERYTHROCYTE CHARGE IS OF THE ORDER 10/SUP -9/ CGSE UNITS, FOR ERYTHROCYTES OF ABOUT 2 MICRONS, AND IS ALWAYS NEGATIVE.

-3-
AN - C7307791
TI - NEUROBIONICS; PROBLEMS AND RESULTS
AU - IVANOV-MUROMSKY, K.A.; MEITUS, V.YU.; ZASLAVSKY, S.JA.; PARMONOV, YU.V.
OS - INST. CYBERNETICS, KIEV, USSR
SO - KYBERNETES (GB) (KHNTA3), VOL.2, NO.1, PP.19-26, JAN. 1973, 54 REF.
DT - J (JOURNAL)
LA - ENGLISH
CC - *2C6490; 2C6440; 2C8818; VCEZAV; VCEAAK; WCHMAN
IT - BIOCYBERNETICS; ARTIFICIAL INTELLIGENCE; NEURAL NETS; BRAIN MODELS; SIMULATION; ELECTROENCEPHALOGRAPHY
ST - NEUROBIONICS; BIONICS; NEURON ENSEMBLES; BRAIN FUNCTIONS
AB - BASIC PROBLEMS OF THE NEW BRANCH OF BIOMICS-NEUROBIONICS-ARE DISCUSSED IN A COMPREHENSIVE FORM. CLASSES OF PROBLEMS ARE TREATED WHICH BEAR A RELATION TO THE STUDY OF NEURONS AND NEURON ENSEMBLES, TO SIMULATION OF SOME BRAIN FUNCTIONS, TO CONSTRUCTION OF NEUROELECTRONIC AND NEUROTECHNICAL SYSTEMS, AS WELL AS TO THE AUTOMATIC PROCESSING OF EXPERIMENTAL DATA, IN PARTICULAR, TO DECIPHERING OF EEGS. THE CURRENT SITUATION IS BRIEFLY ANALYSED IN SOLVING THE ABOVE PROBLEMS.

-4-
AN - B7310556; C7305560
TI - INTERRELATIONS BETWEEN DIFFERENT STRUCTURES OF THE CENTRAL NERVOUS SYSTEM DURING ELECTRONARCOSIS
AU - IVANOV-MUROMSKII, K.A.; LUK'YANOVA, O.N.; KUZ'MINA, E.I.; SEMENYUK, E.F.
SO - KIBERN. AND VYCHISL. TEKH. (USSR) (KVYTA3), NO. 14, PP.30-4, 1972, 14 REF.
DT - J (JOURNAL); EK (EXPERIMENTAL)
LA - RUSSIAN
CC - *2C6440; *2B4640; VCKAAK; ZHWGAF
IT - NEURAL NETS
ST - CENTRAL NERVOUS SYSTEM; ELECTRONARCOSIS; ELECTRICAL ACTIVITY; CORTICAL; SUBCORTICAL STRUCTURES; ELECTRIC CURRENT; SYSTEM ANALYTIC
AB - CHANGES IN THE ELECTRICAL ACTIVITY OF VARIOUS CORTICAL AND SUBCORTICAL STRUCTURES UNDER THE ACTION OF AN ELECTRIC CURRENT ARE STUDIED. THE EXPERIMENTAL METHODOLOGY IS DESCRIBED AND THE RESULTS OF SOVIET AND FOREIGN INVESTIGATORS OF THE PHENOMENON OF ELECTRONARCOSIS FROM A SYSTEM ANALYTIC POSITION ARE COMPARED.

-5-
AN - C7305555
TI - MODELLING BRAIN ACTIVITIES
AU - IVANOV-MUROMSKII, K.A.
SO - KIBERN. AND VYCHISL. TEKH. (USSR) (KVYTA3), NO. 14, PP.4-8, 1972, 22 REF.
DT - J (JOURNAL); TH (THEORETICAL)
LA - RUSSIAN
CC - *2C6440; VCKAAK
IT - BRAIN MODELS
ST - MODELLING; BRAIN ACTIVITIES; ANATOMICAL PARTS
AB - AN ATTEMPT IS MADE TO SYSTEMATISE, FOR THE NON-SEEKING, THE

CONSIDERABLE QUANTITY OF EXPERIMENTAL AND THEORETICAL MATERIAL ACCUMULATED IN RECENT TIMES. METHODS OF MODELLING BRAIN FUNCTIONS AND THE EVOLUTION OF VIEWS ON THE INTERRELATIONS BETWEEN THE MAIN ANATOMICAL PARTS OF THE BRAIN ARE DISCUSSED IN PARTICULAR.

-6-
AN - C707923
TI - AUTOMATIC PROGNOSIS OF THE COURSE OF DISEASES BY MEANS OF A DIGITAL COMPUTER
AU - ZASLAVSKII, S.YA.; IVANOV-MUROMSKII, K.A.
OS - ACAD. SCI. UKRAINIAN SSR, USSR
SO - DOKL. AKADE. NAUK SSSR, VOL.187, NO.3, PP.528-30, JULY 1969, TAKEN FROM: SOVIET PHYS. DOKL. (USA), VOL.14, NO.7, PP.638-40, JAN. 1970
DT - J (JOURNAL)
LA - RUSSIAN
CC - *1C8810
IT - MEDICINE (DISEASES COURSE AUTOMATIC PROGNOSIS USING DIGITAL COMPUTER)
AB - THE AUTHORS EXAMINE A GENERAL METHOD OF PROGNOSIS BASED ON A SIMPLIFIED SCHEME OF THE PHYSICIAN'S ARGUMENTS. THE INITIAL INFORMATION CONTAINED IN THE CASE HISTORIES IS DESCRIBED TERSELY AND IN THIS FORM CANNOT BE USED IN A DIGITAL COMPUTER. THE CONCEPT OF STATE IS INTRODUCED, MEANING A SET OF SYMPTOMS, COMPLICATIONS, ELEMENTS OF MEDICAL PROCEDURES, ETC., WHICH DETERMINE TO SOME EXTENT THE MANIFESTATION OF OTHER STATES. THEN THE COURSE OF A DISEASE CAN BE DESCRIBED APPROXIMATELY BY A SERIES OF SUCCESSIVE STATES.

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USER:
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PRDG:
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SS 4 /C7
USER:
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PRDG:
SS 4 PSTG (4)

SS 5 /C7
USER:
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PRDG:

-1-
AN - A7582937
TI - RECENT RESULTS OF MARINE ELECTRICAL FISHING EXPERIMENTS [IN INSTRUMENTATION IN OCEANOGRAPHY, BANGOR, WALES, 23-25 SEPT. 1975]
AU - STEWART, P.A.M.
OS - IERE: IEE INST. PHYS. ET AL
SO - IERE, LONDON, ENGLAND, VIII+413 PP., PP.155-62, 1975, 19 REF.
DT - PA (PAPER); AP (APPLICATIONS); TH (THEORETICAL)
LA - ENGLISH
CC - *2A9700; ZRAARD
IT - BIOPHYSICS; ELECTRIC FIELD EFFECTS; ZOOLOGY
AB - MARINE ELECTRICAL FISHING EXPERIMENTS; ELECTRICAL STIMULATION;

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dd32492

Tue Mar 24 10:07:24 1992

9

PULSED ELECTRIC FIELDS; CONDUCTING SEA WATER; FLATFISH;
PLEURONECTID FAMILY; ELECTROTAXIS; ELECTROMARCOSIS; STUNNING;
PULSE GENERATOR CIRCUIT

AB - THE SUCCESSFUL USE OF ELECTRIC FIELDS IN THE CAPTURE OF MARINE FISH DEPENDS ON ACCURATE KNOWLEDGE OF THE REACTIONS OF FISH TO ELECTRICAL STIMULATION AND ON THE DESIGN OF ROBUST, RELIABLE SYSTEMS TO GENERATE PULSED ELECTRIC FIELDS IN CONDUCTING SEA WATER. SEVERAL RECENT EXPERIMENTS IN WHICH ELECTRICAL STIMULATION WAS INCORPORATED IN FISHING GEARS ARE DESCRIBED. THE DESIGN OF ELECTRICAL FISHING SYSTEMS IS CONSIDERED IN DETAIL. AN EXPERIMENT ON THE USE OF ELECTRICAL STIMULATION IN THE CAPTURE OF FLATFISH OF THE PLEURONECTID FAMILY IS PRESENTED, AND THE EFFICIENCY AND ADVANTAGES OF THE SYSTEM ARE DISCUSSED.

-2-
AN - B7428117
TI - DEVICE FOR ISOLATING BIOELECTRIC SIGNALS DURING THE EFFECT OF HIGH-FREQUENCY ELECTRIC CURRENTS ON AN ORGANISM
AU - RYBAKOV, A.M.
OS - ALL-UNION SCI. RES. INST. MEDICAL-INSTRUMENT MANUFACTURE, MOSCOW, USSR
SO - MED. TEKH. (USSR) (MEDTEV), VOL.7, NO.4, PP.19-23, JULY-AUG. 1973, 4 REF. TAKEN FROM: BIOMED. ENG. (USA) (BIOEAF), VOL.7, NO.4, PP.216-19, JULY-AUG. 1973

DT - J (JOURNAL); PR (PRACTICAL)
LA - ENGLISH
CC - *2B4640; ZWNGAP
IT - BIOMEDICAL ELECTRONICS
SI - ISOLATING BIOELECTRIC SIGNALS; ISOLATOR; ELECTROMARCOSIS
AB - DESCRIBES AN ISOLATOR BY MEANS OF WHICH IT WAS POSSIBLE TO OBTAIN HIGH-QUALITY RECORDINGS OF ELECTROENCEPHALOGRAMS DURING ELECTROMARCOSIS BY INTERFERENCE CURRENTS. THE REQUIREMENTS IMPOSED ON THE PARAMETERS OF THE LINKS OF THE ISOLATOR ARE SUBSTANTIATED, AND AN EXAMPLE OF THE CALCULATION OF THE PARAMETERS OF THE LINKS WITH THE USE OF THE RELATIONS OBTAINED IS GIVEN.

-3-
AN - B7407941
TI - CHARACTERISTICS OF APPARATUS DESIGNED TO ACT ON AN ORGANISM DURING BIOELECTRICAL EXAMINATIONS
AU - RYBAKOV, A.M.
OS - ALL-UNION SCI.-RES. INST. MEDICAL INSTRUMENT MANUFACTURE, MOSCOW, USSR
SO - MED. TEKH. (USSR) (MEDTEV), VOL.7, NO.1, PP.6-9, JAN.-FEB. 1973, 1 REF. TAKEN FROM: BIOMED. ENG. (USA) (BIOEAF), VOL.7, NO.1, PP.4-7, JAN.-FEB. 1973

DT - J (JOURNAL); PR (PRACTICAL)
LA - ENGLISH
CC - *2B4640; ZWNGAP
IT - BIOMEDICAL MEASUREMENT; NOISE; ELECTRIC DISTORTION
SI - ELECTROMARCOSIS; BIOSIGNAL MEASUREMENT; DISTORTION
AB - THE AUTHOR EXAMINES THE PROBLEMS OF RECORDING BIOSIGNALS DURING THE ACTION OF VARIOUS FORMS OF ENERGY ON THE LIVING ORGANISM E.G. ELECTROMARCOSIS. THE ENERGY FROM THE ACTION SOURCE THAT ENTERS THE BIOSIGNAL MEASUREMENT APPARATUS CAN PRODUCE NOISE, DISTORTION, OR COMPLETE BLOCKAGE OF THE USEFUL SIGNAL.

-4-
AN - B7135070
TI - RECENT ADVANCES IN BIOMONITORING TECHNIQUES
AU - KRISHNA MURTHY, T.G.
OS - BRITISH PHYS. LABS. INDIA LTD., BANGALORE
SO - IEE-IEEE PROC. INDIA (GB) (IIP)

JAN.-FEB. 1971
DT - J (JOURNAL); GR (GENERAL/REVIEW)
LA - ENGLISH
CC - *1B3520
IT - INSTRUMENTATION; BIOMEDICAL ENGINEERING
SI - INSTRUMENTATION TECHNIQUES; DIAGNOSIS; HUMAN AILMENTS; ARTIFICIAL ORGANS; ELECTROCARDIOGRAM; ELECTROENCEPHALOGRAPHY; ELECTRORETINOGRAM; EYE; ELECTROMYOGRAM FOR MUSCLES; X-RAYS; RADIOISOTOPES; CANCEROUS DISEASES; TELEVISION; BIOTELEMETRY; ELECTROMARCOSIS; LASERS; COMPUTERS; CATHETER
AB - AN ATTEMPT IS MADE TO DESCRIBE BRIEFLY SOME RECENT TECHNIQUES LIKE TELEVISION, BIOTELEMETRY, ELECTROMARCOSIS, LASERS AND COMPUTERS.

SS 5 /C?
USER:
nbr ladaushkin:/au

PROG:
SELECT# POSTINGS TERM
36 5 LADNER, R.E./AU
37 1 LADNOVA, L.A./AO
38 15 LADO, F./AU
39 1 LADO, W.J./AU
40 1 LADOWICZEK, C./AU
UP N OR DOWN N?

USER:
file inpadoc

PROG:
ELAPSED TIME ON INSP6976: 0.08 HRS.
\$9.60 ESTIMATED COST CONNECT TIME.
\$1.04 ESTIMATED COST TELECOMMUNICATIONS, IF APPLICABLE.
\$0.00 ESTIMATED COST OFFLINE PRINTS: 0
\$14.40 ESTIMATED COST ONLINE PRINTS: 18
\$25.04 ESTIMATED TOTAL COST THIS INSP6976 SESSION.
YOU ARE NOW CONNECTED TO THE INPADOC DATABASE.
COVERS 1968/1973 THRU WEEKLY UPDATE (9211)

SS 1 /C?
USER:
nbr ivanov-nbr:/in

PROG:
SELECT# POSTINGS TERM
41 1 IVANOV-KHOLODNYJ G S/IN
42 3 IVANOV-LOSEKHOV VALERIJ S/IN
43 1 IVANOV-OMSKIJ VLADIMIR/IN
44 7 IVANOV-PERLIN IOSIF S/IN
45 7 IVANOV-SHIDLOVSKIY NIKOLAJ V/IN
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P. 3

dd32492 Tue Mar 24 10:07:24 1992 10

47 38 LADNOV VYACHESLAV S/IN
48 1 LADNOVI/IN
49 1 LADNOVI SVGENIYI I/IN
50 1 LADNOVI/IN
UP N OR DOWN N?

USER:
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PROG:
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51 1 ELECTROANALGESY/TI
52 1 ELECTROANESTHESIE/TI
53 5 ELECTROANESTHESIA/TI
54 1 ELECTROANESTHESIE/TI
55 1 ELECTROANESTHESY/TI
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PROG:
SELECT# POSTINGS TERM
56 1 ELECTROANICS/PA
57 1 ELECTROANNEALING/TI
58 1 ELECTROANODIC/TI
59 1 ELECTROANOMALOUS/TI
60 4 ELECTROAPARATAJ/PA
UP N OR DOWN N?

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PROG:
SS 1 PSTG (5)

SS 2 /C?
USER:
sel 55

PROG:
SS 2 PSTG (1)

SS 3 /C?
USER:
print 5 ss 1

PROG:
-1-
PM - US 4383522-A [US4383522] 83.05.17
TI - METHOD OF ELECTROANESTHESIA
IN - KASTRUBIN EDUARD M [SU]; KORDJUKOV JURY V [SU]
PA - KASTRUBIN EDUARD M; KORDJUKOV JURY V
AP - 80.11.12 205981/80-A [80US-205981]
PR - 80.11.12 US 205981/80-A [80US-205981]
IC - A61N-001/34

-2-

PM - US 3791373-A [US3791373] 74.02.12
TI - PORTABLE ELECTROANESTHESIA DEVICE WITH AUTOMATIC POWER CONTROL
IN - WINKLER E; MC GOWAN E
PA - UNIV SOUTHERN ILLINOIS
AP - 72.03.02 231161/72-A [72US-231161]
PR - 72.03.02 US 231161/72-A [72US-231161]
IC - A61N-001/34

-3-
PM - SU 1079252-A1 [SU1079252] 84.03.15
TI - METHOD OF ELECTROANESTHESIA OF POSTOPERATIONAL STOMATOLOGIC PATIENTS AND ELECTRODE FOR ITS REALIZATION
IN - RUDKO VLADIMIR F; DURIYAN RUBEN A; BIZYAEV ALEKSEJ F; SHUGAILOV IGOR A; IVENSEII NIKOLAJ I; RESHETNYAK VITALIJ K; MOSKOVETS OLEG W; PROKUDIN ALEKSANDR S; YAKOWLEV VLADIMIR A
PA - MD MED STOMATOLOG [SU]; TSNII REFLEKOTERAPII [SU]
AP - 82.07.12 3474528/82-A [82SU-474528]
PR - 82.07.12 SU 3474528/82-A [82SU-474528]
IC - A61N-001/36

-4-
PM - SU 1074543-A1 [SU1074543] 84.02.23
TI - METHOD OF GENERAL ELECTROANESTHESIA
IN - LEBEDEV VALERIJ P; KATSNELSON YAKOV S; LEOSKO VOLDEMAR A; BARANOVSKIJ ALFRED L; SHELEMIS GRIGORIJ I
PA - LEBEDEV VALERIJ P [SU]; KATSNELSON YAKOV S [SU]; LEOSKO VOLDEMAR A [SU]; BARANOVSKIJ ALFRED L [SU]; SHELEMIS GRIGORIJ [SU]
AP - 82.01.18 3385722/82-A [82SU-385722]
PR - 82.01.18 SU 3385722/82-A [82SU-385722]
IC - A61N-001/34

-5-
PM - SU 995801-A2 [SU-995801] 83.02.15
TI - METHOD OF ELECTROANESTHESIA
IN - ILIN VALERIJ I; GUBAR VYACHESLAV V; MIROV ANATOLIJ V
PA - GRODNENSK G MED INST [SU]
AP - 80.07.09 2986393/80-A [80SU-986393]
PR - 80.07.09 SU 2986393/80-A [80SU-986393]
IC - A61N-001/34

SS 3 /C?
USER:
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PROG:

-1-
PM - CS 211295-B [CS-211295] 82.02.26
TI - CONNECTION OF THE HYBRID OUTLET CIRCUIT IN THE DEVICE FOR NEUROSTIMULATING ELECTROANALGESY AND ELECTROANESTHESY
IN - LEBL MIROSLAV; MEDVED VLADIMIR
PA - LEBL MIROSLAV; MEDVED VLADIMIR
AP - 80.09.01 5943/80-A [80CS-005943]
PR - 80.09.01 CS 5943/80-A [80CS-005943]
IC - A61N-001/34

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