人造金刚石磨料与制品专利定题检索资料





(1)

1 9 9 4 地 矿 信 息 研 究 院 地 矿 部 专 利 事 务 所

309428

· 223213

PATENT NO.: +US-5075095A(911224).

TITLE : LOW PRESSURE PRODM, OF MECHANICALLY STABLE DIAMOND MASS—BY CONTACTING AGGREGATION OF DIAMOND PASTULES WITH ATCHIC HYBROGEN.

PATENTEE : CRYSTALLUME.

PATE CODS : CRYS-IPC : CO1803106. D.W. NO. : E36; LO2.

ACCE. NO : 92-031991. LW/FW : 09204, 09204.

PRIORITY : 87041587US-0032169 88060788US-0204058

89092789US-0413144.

1 PROCESS FOR CONSOLIDATING DIAMOND PARTICLES INTO A MECHANICALLY STABLE DIAMOND MASS COMPRISES CONTACTING A COMPACTED AGGREGATION OF DIAMOND PARTICLES WITH ATOMIC H UNDER CONDITIONS WHERE THE DIAMOND PARTICLES GASIFY AND ARE REDEPOSITED AS A MECHANICALLY STABLE DIAMOND MASS DEVOID OF INTERSTITCHED SPACES. THE ATOMIC H IS GENERATED BY APPLYING NON-THERMAL EBERGY TO THE PARTICULATE MASS WHILE EXPOSING THE MASS TO MOLECULAR H2. IT MAY ALSO HE FORMED BY DISSOCIATING MOLECULAR H2 UPON A CATALYTIC MATRIX, SELECTED FROM PT, PD, NI, PANEY NICKEL, PB AND OTHER HYDROGENATION CATALYSTS. CARBON COURCE CAS PRESSURES ARE 0.001-1000 10 3-103 TORR, PREF. 10-50 TORR. TEMPS. ARE BETWEEN 20-1000 DEG.C, PREF. 650-850 DEG.C THE METHOD OF DEPOSITIONS IS NOT LIMITED BUT A PECVD WITHOUT DIRECT HEATING OF THE DEPOSITIONS CHAMBER WALLS IS PREF. USE/ADVANTAGE - DIAMOND HAS MANY INDUSTRIAL APPLICATIONS. THERE ARE MANY PROCESSES KNOWN WHERE IT IS SYNTHESISED UNDER HIGH PRESSURE, BUT THE GRPWTH RATE TEND TO BE SLOW, REQUIRING LONG DEPOSITION TIMES, AND THE APPRS. TENDS TO HE BULKY AND EXPENSIVE. THE METHOD PROVIDES DIAMOND SYNTHESIS THAR OVERCOMES THESE DISADVANTAGES. 4PP DWG.NO.0/O.

专利号: (美国)US5075095A 专利权人: Crystallume

优先权目: 1987.4.15

专利简介: 低压生产机械性能稳定的金刚石体一通过金刚石颗粒固接形成的金刚 石颗粒集合体与氢原子接触形成性能稳定的金刚石体

PUTI (2912/02

PATENT NO.: =JF04504999W(920903) +W0-9009361A(900823) =AU-905094A4(900905) = DE-4090245T(920130) =GB-2246773A(920212).

TITLE : COMPOSITE OF DIAMOND AND (NON-)OXIDE GERANIC
MATRIX---PREPD, BY ELEVATED TEMP, AND PRESSURE
TO FORM BODY CONTG, LESS THAN TO PER CENT

DIAMOND, USEFUL FOR ABRADING WHEELS.

PATENTEE : COMMONWEALTH SCI IND RE.

PATE CODS : CSIR.

IPC : 004B03552 ; 004B03564.

D.W. NO. : LO2.

ACCE. NO : 90-275075.

LW/FW : 09242, 09036.

PRIORITY : 89021389AU-0002694 89021389AU-0002695.

: COMPOSITE COMPRISES MATRIX OF OXIDE OR NON-OXIDE CERAMIC, EXCLUDING SIC, AND LESS THAN 70 VOL. % DIAMOND PARTICLES WHICH ARE PREF. LESS THAN 100 MICRON AND ARE 20-40 VOL. % OF COMPOSITE. OXIDE CERAMIC IS PREF. OXIDE OF ELEMENT WITH ATOMIC NUMBER OVER 12 AND IS ESP. ALUMINA, TITRIA, ZIRCONIA, COORDIERITE CR MULLITE, AND NON-OXIDE CERAMIC IS CPD. OF C,N OR B AND IS ESP. SI3N4, AIN, OR CARBIDE, TIB2, B4C, OR BN. COMPOSITE IS COMPACTED IN REDUCING ATOMS. AT HIGH TEMP. AND AT PRESSURE BELOW DIAMOND/GRAPHITE EQUILIBRIUMM PRESSURE. PREF. CONDITIONS ARE (1) HOT PRESSING AT BELOW BOTH 1750 DEG.C. AND 100 MPA, AND ESP. IN GRAPHITE DIE TO PROVIDE REDUCING ATMOS. (2) HIP UP TO 180 MPA OR (3) SINTERING. USE - USEFUL FOR MACHINING COMPONENTS, SEALS ABRADING WHEELS, OR GEMSTONE POLISHING SURFACES. AIN/DIAMOND IS USEFUL FOR HIGH THERMAL CONDUCTIVITY USES.

专利号:(日本)JP04504999W 专利权人:Commonwealth Sci & Ind R

优先权目: 1989.2.13

专利简介: 金刚石和(无)每化物陶瓷胎体的复合材料--经过提高温度,加大压力等综合条款,形成用于雕新的金刚石含量小于70的全侧石模块

PATENT NO.: =JP92058945B(920918) +US-4923490A(900508) =EP-374515A(900627) =JP02218560A(900831).

TITLE : DIAMOND OR CUBIC BORGN NITRIDE GRINDING WHEELS ---CONTAINS MIXT. OF POLYCRYSTALLINE AND

MONOCRYSTAL PARTICLES IN METAL RESIN CR

VITREOUS MATRIX.

PATENTEE: SANYO KOKUSAKU PULP CO.

PATE CODS : SACK.

IPC : A23L001229 ; A23L00128 ; B24D00310 ;

CO9KOO314 1 C23CO26CO.

D.W. NO. : D13; LO2; P61. ACCE. NO : 90-178232.

LW/FW : 09242, 09023.

PRICRITY : 88121688US-0286450.

ABS. : PRODUCING TRAST EXTRACT COMPRISES REMOVING
TRAST MALODOUR, BITTER COMPONENT AND INHIBITOR FROM A RAW
TRAST EXTRACT AND CONCENTRATING THE COMPONENT OF THE

YEAST EXTRACT AND CONCENTRATING THE COMPONENT OF THE EXTRACT, USING AN UNTRAFILTRATION MEMBRANE. USED FOR MEDICINE PRODE. FACILITIES. (JO2219560-A) DWG.0/O.

专利号: (日本)JP92058945B 专利权人: Sanyo kokusaku pulp co.

优先权日: 1988.12.16

公 开 日: 专利简介: 会附石或立方獨化欄房轮一在金属树脂或玻璃质胎体中。聚晶金阴石 颗粒和单晶金刚石颗粒的混合体 PATENT NO.: +JP04268076A(920924).

: DARAGIO CONTING TOOK WITH SYTI-FEELING JUNFUSITE DIAMOND JUNTING----COMPRISES JERAMIS BASE WITH INTERMEDIATE AMORPHOUS CARBON FILM

CONTG. FUHORING AND HYDROGEN AND VAPOUR PHASE-SYNTHEJIJED DIAMOND FILM.

: MITSUBISHI MATERIALS CORP. PATENTEE

PATE CODS : MITV.

: B23B02714 ; C23C01622 ; C23C01626 ;

C30B02904. D.W. NO.

: LO2; M13; P54. ACCE. NO : 92~368535. LW/FW : 09245, 09245.

PRIORITY : 91022091JP-0047593.

ABS. : CERAMIC BASE MATERIAL IS COATED WITH

INTERMEDIATE LAYER OF AMORPHOUS CARBON FILM CONTG. 1-30AT.% OF F AND 1-30AT.% OF H, AND IS FURTHER COATED BY GAS PHASE-SYNTHESISED DIAMOND FILM. THE INTERMEDIATE LAYER IS PERF. 0.1-10 MICRON THICK. THE CERAMIC BASE MATERIAL IS FREF. A SILICON NITRIDE CERAMIC. USE/ADVANTAGE - PROVIDES EXCELLENT CUTTING TOOL HAVING HIGH ANTI-PEELING, COMPOSITE DIAMOND COATING. EXAMPLE, A COMMERCIAL SILICON NITRIDE CERAMIC MATERIAL WAS MACHINED TO FORM A TIP CONFORMING TO ISO SPGN 120308. THE TIP WAS ETCHED TO PREPARE THE BASE MATERIAL OF SI2N4-5%Y203-3%AL203 UNDER THE CONDITION OF 0.05TOR, 100W OF RF-POWER, CF4 GAS, 50 SCCM GAS FLOW RATE, AND 20MIN. TREATMENT. THE TIP WAS THEN SUBJECTED TO AMORPHOUS CARBON FILM SYNTHESIS UNDER THE CONDITION OF 0.2TORR, BOW OF RF POWER, CH4 + 20%HF, 20 SCCM OF GAS FLOW RATE. THE AMORPHOUS CARBON FILM WAS FURTHER COATED BY THE GAS PHASE SYNTHESIS DIAMOND FILM 5 MICRONS THICK IN MICROWAVE PLASMA UNIT UNDER THE CONDITION OF 30TORR, 600W OF MICROWAVE POWER, 1%CH4 + H2, AND 100 SCCM GAS FLOW RATE. THE PREPD. TIP WAS USED AS THE CUTTING TOOL FOR DRY MILLING UNDER THE CONDITION OF AL-18%SI OF WORK. 500M/MIN. CUTTING SPEED, 0.5MM CUTTING DEPTH, AND O.3MM/REV. FEED. THE PEELING OF DIAMOND FILM OCCURRED AFTER 36MIN. OF CUTTING. DWG.O/O.

> 专利号: (日本)JP04268076A 专利权人: Mitsubishi materia materials c

优先权日: 1991.2.20

PATENT NO.: =US-5152060A(921006) +DE-3709278A(880929) =#0-8806941A(880922)G =DE-3709278C(890302) =EP-391895A(901017) =JP03500861W(910228) =EP--3918958(920515)g. : PRODUCING PRECISION MACHINED BORES IN TTTLE STRUCTURED BODIES --- BY GROOVING FOIL USING DIAMOND CUTTER AND FIXING LAYERS OF GROOVED FOIL ON TOP OF EACH OTHER. PATENTEE : KERNFORSCHUNGS KARLSRUEE. PATE CODS : GESL. : B01D03910 ; B23B00548 ; B23C00328 ; IPC B23D00100 ; B23D04300 ; B23K00100 ; B23K02016 ; B23P01500 ; B23F01700 ; B23K0330 ; B23B0704 ; B32B03300 ; B32B03500 ; F2BD00900 ; G02B00518. D.W. NO. : J04: P54: P55: P56: P73. P81: Q78. ACCE. NO : 88-279318. : 09243. 08840. PRIORITY : 87032087DE-3709278. ABS. : FINELY-STRUCTURED BODY, E.G. HEAT EXCHANGER, FINE FILTER, OR OPTICAL GRATING, IS MANUFACTURED BY WRAPPING A METAL FOIL (1) OVER A MANDREL (2) OF A LATHE SO THAT SUCCESSIVE GROOVES (3) CAN BE CUT BY A SHAPING DIAMOND (4A), WHICH IS ADVANCED BY AN ADJUSTABLE FEED (A.B). FOIL IS OVERLAPPED AT ITS OPPOSING EDGES (5) BY E.G. WELDED, THE REGION OF THE WELD BEING PRESSED INTO A RECESS (6) OF THE MANDREL BY A CLAMPING DEVICE (7). ADVANTAGE - HIGH PRECISION FORMATION OF CHANNEL-LIKE

专利号: (美国) US5152060A 专利权人: Kernforschungs Karlsruhe

DWG. 1/7.

优先权日: 1987.3.20

PERFORTIONS.

介:在热交换器。精致过滤器等结构体上生产精密的机加工孔一借助开槽 算片,利用金侧石切削具。将开槽翼片固定在彼此的项部 PATENT NO.: =EP-3241798(921028)E +EP-324179A(890719)E =JF0:187409A(890721) =ZA-9900186A(891025) =US-

49592014(960925).

TITLE : GREEN SYNTHETIC DIAMOND USED IN JEWELLERY---FACTURED BY IAMBELATING CLEAR YELLC. IS TYPE DIAMOND WITH BEGORNON BEAM AND HEAT TREATING IN

VACUUM.

PATENTRE : SUMITOMO ELEC IND KK. PATE CODS : SUME.

IPC : A44C01700 ; B01J01908 ; B28D00500 ;
C01B03106 ; C30B02904 ; C30B03120 ;

C30B03300.

D.W. NO. : LO2; P23; P64. ACCE. NO : 89~208197. LW/FW : 09244, 08929.

PRIORITY : 88C11388JP-0005573.

A CREEN DIAMOND CHARACTERISED IN THAT THE
NITHOGEN CONTENT IN CRISTALS IS 5 X 10 POWER (16) TO 3 X
10 FOWER (19) ATONS/OM5, THE ABSORPTION COEFFF. OF E2
CENTRES AT A WAVELENGTH OF BOO NM IS 0.3-6 CM(-1), THE
ABSORPTION COEFFICIENT OF THE LB TYPE NITHOGEN AT A
WAVELENGTH OF 500 M IS 0.05-1.5 CM(-1), AND THE
ABSORPTION COEFFICIENTS OF H3 CENTRES, H4 CENTHES, N-V
CENTRES AND GRI CENTRES IN THE VISIBLE REGION ARE NOT
ACRE THAN OR! CMCT.) DWG 0.00 THE

专利号: (欧洲)FP324179B 专利权人: Sumitomo Elec Ind kk.

优先权日: 1988.1.13 公开日: 专利简介: 珠宝中的绿

珠宝中的绿色人造金刚石一在真空条件下用电子束膜射透明的黄色IB 型金刚石及热处理过程制造绿色人造金刚石 PATENT NO.: =JP04242742A(920831) +DE-4142987A(920702). : CUTTING SURFACE OF ALUMINIUM SUBSTRATE FOR ELAUTRUF HODE GAAF RIC PROTORECEPTOR---#11TH SINTERED POLYCRYSTALLINE DIAMOND TOOL KEPT AT

CONSTANT TEMP. WITH CUTTING FLUID.

PATENTEE : KONICA CORP.

PATE JULS : KONS.

: B23B00100 ; B23P02500 ; B23Q01110

B23Q01709 , C10M10102 , C10M10502 C10M10512 : C10M17300 : C10M04020

G03G00510.

D.W. NO. : G08; P54; P56; P84; S06.

ACCE, NO : 92-227264. LW/FW : 09241, 09228.

PRIORITY : 90122890JP-0417446.

ABS. : THE SURFACE OF THE BASE COMPOSED OF AL MATERIAL, IS CUT BY THE BITE WHILE SUPPLYING THE CUTTING LIQ. ONTO THE SURFACE OF THE BASE. THE TEMP. SENSOR FOR DETECTING THE TEMP. OF THE BIT IS INSTALLED. FOR CONTROLLING THE TEMP. OF THE LIQ. AND THE SUPPLYING QUANTITY OF THE LIQ. SO TEAT THE TEMP. OF THE BITE IS CONSTANTLY KEPT ON THE BASIS OF THE DETECTING SIGNAL OF THE TEMP. SENSOR. THE CUTTING LIQ. IS WHITE LAMP OIL, ALCOHOL., AN AQ. SOLN. OF SURFACTANT AND/OR WATER-SOLUBLE ORGANIC SOLVENT, WATER-SOLUBLE ORGANIC SOLVENT (NOT INCLUDING WATER), AND WATER. A BITE COMPOSED OF THE POLYCRYSTALLINE DIAMOND SINTERED BODY IS USED FOR THE ROUGH TREATMENT, AND THE FLAT BIT COMPOSED OF MONOCRYSTALLINE DIAMOND AND POLYCRYSTALLINE DIAMOND SINTERED BODY AND R BITE ARE USED FOR THE FINISHING TREATMENT. USE/ADVANTAGE - THE LIFE OF THE BITE CAN BELIMPROVED. AND THE STABILITY IN SIZE OF THE BASE OF THE PHOTORECEPTOR CAN BE IMPROVED. DWG.0/6.

> 专利号:(日本)J 专利权人:Konica corp) JP04242742A

优先权日: 1990.12.28

·电子照相的光感受器钢基片表面的切削---用烧结聚晶金刚石工具 ·切削被并保持恒温

FATERT GUL: +JF642569814(9.6907).

TUCKTIN CTCELGO DRITTING CEJECTS WITHOUT SEIZURE DAMAGE --- COMPRISES CARBONOR DIAMOND Fember Jenieb with Refer of Jakanide, Bound WITH DIARCNE OR BOHON NITHIDE SUPER-ABRASIVE

GRAINS.

TOYODA LACHINE JORKS LTD.

PATE JUDS : TUZA. IPC B24D00302. D.W. NO. LO2; P61. ACCE. NO : 92-345673.

TITLS

LW/PW 09242, 09242. : PRIORITY 90122790JP-0407935.

: GRINDING STONE COMPRISES C OR DIAMOND POWDER ABS. COATED WITH A METAL OR A CERAMICS AS THE AGGREGATE, BOUND WITH DIAMOND OR CBN SUPER-ABRASIVE GRAINS. GRINDING STONE WAS AFD. BY COATING THE DIAMOND OR CBN ABRASIVE GRAINS WITH A METAL OR CERAMIC AGGREGATE. AND BINDING THE COATED ABRASIVE GRAINS WITH A VITRIFIED-TYPE BINDER WHILE INCORPORATING PORES INSIDE THE GRINDING USE/ADVANTAGE - USED FOR CUTTING OBJECTS WITHOUT SEIZURE DAMAGE OF THE OBJECTS TO BE CUT. THE AGGREGATE IS EASILY CLEAVED UPON CONTACT WITH THE OBJECT TO RELAX THE FRICTION. DWG.O/2.

专利号: (日本)JP04250981A 专利权人: Toyoda MachineWorks Ltd.

. 优先权日: 1990,12,27

金属或陶瓷涂于含碳酸金刚石粉末

INTENT NO.: =AU-92:1280%(920900) +EP---506238A(920930)2.

TITLE : COMPOSITE CUTTER INSERT FOR TWIST DRILL.--HAS
BAUGE-TU-BUJE INSERTS JUT FROM THIN LAYER OF
FOLYORYSTALLINE BLANCHD, GUATED ONTO TUNNSTEN

CARBIDE.

PATENTEE : DE BEERS IND DIAMOND DIV.

FATE CODS: DBEE.

IPC: : B23B02720 : B23B05102 : B23P01532.

D.W. NO. : P54; P56. ACCE. NO : 92-325530. LW/FW : 09244, 09240.

PRIORITY : 91030191GB-0004366.

ABS. -: THE PRODUCTION METHOD FOR PRODUCING A COMPOSITE CUTTER INSERT INVOLVES CUTTING AN INTERMEDIATE BLANK (16) PROM A COMPOSITE DISC (10) COMPRISING A BELATIVELY THICK LAYER OF TUNGSTEN CAREIDE (20) COATED ON ARE FACE WITH A THIN LAYER OF POLYCHRYSTALLINE DIAMOND STRIP (18). PAIRS OF INSERTS (22.1, 22.2) ARE CUT FROM THE BLANK PROVIDING CHEVRON SHAFED CUTTING BLOES (26, 28) WHICH ARE THEN BONDED BACK-TO-BRANK TO FORM A COMPOSITE CUTTING INSERT (24) WITH CUTTING EDGES ON OPPOSITE SIDES OF THE CENTRAL PLANE. THE COMPOSITE CUTTER INSERT IS LOCATED IN A SLOT GUT IN THE END OF A THIST DRILL. USE ADMINAGE—LESS EXPENSIVE TO PRODUCE, CAN BE FITTED TO CONVENTIONAL TWIST DRILL BLANKS ELIPINATES STRESS FOUND IN THREE LAYER SANDWICH MATERIALS.

专利号: (澳大利亚)AU9211280A 专利权人: De Beers Ind Diamond Div

优先权目: 1991.3.1

专利简介:麻花钻复合刀具镶嵌一镶嵌槽中硬质合金上镀有聚晶金刚石薄层

FATENT NO .: = JP04260435A(920916) +W0-9214542A(920903)J.

: IMPROVED PROCESS FOR SYNTHESISING DIAMOND CRYSTAL. FOR OPPIDAL FAMIS -- - USES TEMP. DIFFERENCE METHOD TO GROW CRYSTAL IN SOLVENT

AL TERRORISE, EMPITIME DIRECTION STREET AND REMOVES DITROGEN FROM GOLVENT BY USING

NITROGEN GETTER.

: SUNITOMO ELECTRIC CO.

FATE SUDB : SUME. : B01J00306 ; C01B03106 ; C30B01902.

: E36; J04; L02; L03; V08.

ACCE. NO : 92-315978. LW/FW : 09244, 09238.

PRIORITY : 91021591JP-0022240 91031491JP-0075622

91092491JP-0243135 91082991JP-0244924 91111891JP-0301813 91111991JP-0303197

91112691JP-0310618.

: IN THE SYNTHESIS OF DIAMOND BY TEMP. DIFFERENCE PROCESS, AN ALLOY OF AFE-YOO-ZAL SYSTEM (IN WHICH X, Y AND Z (IN AT PERCENT) SATISFY Y = 20-90 AND Z AT MOST 2) IS USED AS THE SOLVENT. SOLVENT (IN WHICH A TRACE AMT. OF ONE OR MORE ELEMENTS CHOSEN FROM B. GA BR. IN AND LI IS ADDED TO THE RFE-YCO-ZAL SYSTEM ALLOY) IS PREF. USED AS THE SOLVENT TO OBTAIN DIAMOND OF EVEN HIGHER CLARITY, THE AMT, OF THE ELEMENT CHOSEN FROM B. GA. BE. IN AND LI TO BE ADDED IS PREF AT LEAST 25 PPM AND AT MOST 2 WT PERCENT. USE/ADVANTAGE - COLOURLESS AND TRANSPARENT SYNTHESISED DIAMOND HAVING NO NITROGEN ABSORPTION IN INFRARED REGION IS PRODUCED UNDER STABILISED CONDITIONS AT LOW COST. DWG.0/2.

ラ利号: (日本)JP04280435A ラ利权人: Sumitomo Electri Electric co

优先权日: 1991.2.15

、黃金剛石单晶体在光学方面的改善工艺一利用温度差方法在含铁 1、铝,钛等离子的溶剂中生长晶体,然后用氯气吸收剂吸走溶液中重

PATENT No.: =NO-3200759a(920902) +88-511971+4(920009) =E7-

-501258A(920902)E.

TITLE : DIAMOND FILLED COMPACTS FOR ROTARY HOCK BIT FOR BARTH BORING---HAVE HARD METAL JACKETS AND

INTEGRALLY FORMED SINTERED DIAMOND CORES.

EXPOSED TO FORM CUTTING EDGES.

PATENTEE: : HUGHES TOOL CO.

PATE CODS : HUGH.

IPC : B 21K00502 ; E21B01046 ; E21B01050.

D.W. NO. : HO1; P52; Q49. ACCE. NO : 92-215818. LN/FW : 09245, 09226.

LW/FW : 09245, 09226. PRIORITY : 91030191US-0662935.

ES. : THE MATHOD OF MANUFACTURE COMPRISES FORMING A DIAMOND FILLED COMPACT FROM A HARD METAL JACKET WITH AN OPEN END AND OPEN INTERIOR. THE INTERIOR IS FILLED WITH A DIAMOND MATERIAL WHICH IS THEN SINTERED TO FORM A DIAMOND CORE IN A METAL JACKET IS THEN INTERED TO FORM A DIAMOND FOR THE ANTALLEST. THE OUTER METAL JACKET IS THEN REDUCED TO A SIZE TO COMPORM TO A CUTTING INSERT POCKET FROVIDED ON A ROTALABLE CUTTER. THE TOP SURFACE). THE INFROVED COMPACT IS INSTALLED IN A RECEIVING POCKET ON THE HOPAUTHER. ADVANTAGE - THE IMPROVED COMPACTS ARE USED AS GAGE AND HEEL ROW COMPACTS WHEN INSERTED IN MATHING RECEISES ON THE EXTERIORS OF ROTATABLE COMES.

专利号: (美国)US-5119714A 专利权人: Hughes tool co

优先权日: 1991.3.19

PATENT NO.: =IT-1233124B(920314) +US-4903678A(900227) =ES-2015821(900901) =CN-1041903A(900509). : METHOD OF DRESSING GRINDING WHEELS __INCLUDES TITLE EXECUTING PASSES OF DIAMOND NIB PARALLEL TO MESSI ROTATION UNII. PATENTEZ : /ESTINGHOUSE ELECTRIC COR. PATE CODS : WESE. : B24B05308 ; B24D00718 ; B24D01800 ; F01 D00530. D.W. NO. : P61; Q51. ACCE. NO : 90-115011-LW/FW : 09241, 09015. PRIORITY : 88101488US-0257901. ABS. : THE LETHOD INVOLVES ADVANCING A DIAMOND NIB (6) ADJACENT THE CUTERCIRCUMFERENCE OF THE WHEEL (2) WHILE THE WHEEL (2) ROTATES ABOUT ITS AXIS. THE METHOD INCLUDES CAUSING THE DIAMOND NIB (6) TO EXECUTE PASSES IN A DIRECTION PARALLEL TO THE AXIS OF WHEEL (2) ROTATION WHILE DISPLACING THE NIB (6) PERPENDICULAR TO THE AXIS OF WHEEL (2) ROTATION IN A PATTERN CORRESPONDING TO THE PROFILE TO BE CREATED AT THE WHEEL (2) CIRCUMFERENCE. THE PROFILE INCLUDES AT LEAST ONE ANNULAR GROOVE HAVING AT LEAST ONE SIDE WALL WHICH EXTENDS IN A GIVEN ANGULAR DIRECTION AT AN ANGLE OF NO GREATER THAN 20 DEG. TO A PLANE PERPENDICULAR TO THE AXIS OF WHEEL (2) ACTATION. THE WHEEL (2) IS PACVIDED JITH A CIRCUMFERENTIAL PORTION (14) WHICH JILL NOT BE USED FOR A SUBSEQUENT GRINDING OPERATION AND THE NIB (6) IS DRIVEN IN CADER TO FORM. ON THE CIRCUMFERENTIAL PORTION (14). AN INCLINED SURFACE (16) WHICH EXTENDS IN THE GIVEN ANGULAR DIRECTION AT AN

ANGLE TO A PLANE PERPENDICULAR TO THE AXIS OF WHEEL (2) ROTATION WHICH IS GREATER THAN THE ANGLE OF THE AT LEAST ONE GROOVE WALL. USE - A LETHOD FOR DRESSING A GRINDING

专利号:(意大利)IT1233124B 专利权人: Westinghouse Electric Co

WHEEL (2). 4PP DWG.NO.1/1 .

优先权日: 1988.1.4

专利简介:唐轮整形法一在平行于唐轮旋转轴的方向,金刚石尖刃进行整形操作

randar do.: =88-514993aa(328922, +do-920)873a(320011)4 ≃8a-9108114A(920729) =AU-9215798A(920625) ່≡ປ⊁ປະເສົາສິ່ງປະເ(ສີເປີຍຂ**ບ**).

RITLE : MARKINGS PRODU ON DIAMONDS --- BY UV LASER

IRRADIATION THROUGH A MASK OF SYNTHETIC FIBRE.

PATENTRE : WINSTON SA HARRY.

FAIR JUDS : ITES-

: A44C017C0 ; B23K02600 ; B24B00000 B44D00500 ; C01B00000 ; C30B02904 ; G01N04500 ; G09F00716 ; H01500000.

: F01; L02; M21; P23; P55; P61; P78; P85; S03; D.W. NO.

ACCE. NO : 92-217213.

LW/FW : 09241, 09226.

PRIORITY : 90101190US-0595861 91100891US 0770446.

ABS. : METHOD COMPRISES (A) POSITIONING A MASK BETWEEN AN OUTPUT OF AN EXCIMER LASER AND A PORTION OF THE

DIAMOND TO BE MARKED, AND (B) DIRECTLY IRRADIATING THE PORTION THROUGH THE MASK TO CREATE THE MARK IN THE DEFINED PATTERN. THE IRRADIATION IS WITH AT LEAST ONE ENERGY PULSE AT 193NM. MASK HAS AREAS OF DIFFERENT TRANSMISSIVITIES AND IS SPACED AWAY FROM THE SURFACE OF THE DIAMOND. MASK IS OF PAPER, OR ONE OF FUSED QUARTZ, SILICA OR SAPPHIRE. LAYER OF DIAMOND REMOVED HAS A THICKNESS OF SEVERAL ANGSTROKS TO SEVERAL MICRONS. DIAROND RAY BE CONTED WITH A PLUCKESCENT OR PHOSPHORESCENT MATERIAL OR ELECTRICALLY OF MAGNETICALLY

DETECTABLE MATERIAL BEFORE IRRADIATION. RELATIVELY RAPIO RARKING WITHOUT THE NEED FOR COMPUTAR DRIVEN X-Y TABLES, RECUCED HISK OF DAMAGE TO THE STONE. VARIOUS GREY SHADES CAN BE FORMED AND GOOD LINE DWG.1/3. DEFINITION.

专利号: (美国)US5149938A 专利权人: Winston Sa Harry

优先权日: 1990.10.11

与利衡分: 金刚石上的标记制做一发射激光,穿透人造纤维罩

PATENT NO.: +EP--467043A(920122) =CA-2042210A(911214)

=JP04228497A(9208:8) =ZA-9104159A(920624).

TITLE : APPTS FOR FORBING CVD DIAMOND SHERT--USING
POLICHED SUBSPRATE COATED STEESTRATE OR SLOW

POLISHED SUBSTRATE, COATED SUBSTRATE OR SLOW OR DELAYED COOLING REGIME TO ALLOW SHEET TO BE

REMOVED INTACT.

PATENTEE : GENERAL ELECTRIC CO.

PATE CODS : GENE.

IPC : B01J00000 ; C01B03106 ; C23C01626 ;

C30B02518 ; C30B02904.

D.W. NO. : L03; M13; V08. ACCE. NO : 92-025930. LW/FW : 09294, 09210.

PRIORITY : 90061390US-0537963.

BIOGITY: 9006 19908-097997.

BS: : APPTS: FOR DEPOSITION OF A DIAMOND SHEET BY CVD INVOLVES A UNIFORMLY SKOOTH SUBSTRATE SURFACE WHICH PROVIDES UNIFORM ADDESION TO RETAIN THE DIAMOND DURING DEPOSITION, BUT WEAK ENOUGH TO ALLOW REMOVAL OF THE DIAMOND WITHOUT REMAKE APTER DEPOSITION. THE SUBSTRATE PREF. HER OR RECESSES, PROTRUSIONS OR SHARE BOGSS. THE SUBSTRATE IS FREE OF HUDENYATIONS OF PROTUSIONS OF MORE THAN 0.5 MICHON. THE SUBSTRATE IS SIG. WO OR NO, SEP. MO. IN AN ALTERNATIVE—REMODINENT, THE SUBSTRATE IS OF ACTED WITH A SUITABLE MATERIAL FOR FACILITATING RELEASE OF THE DIAMOND, PREF. A BN SUBSTRATE SOXIDE, GRAPAITE OF FE CUIDE OF MOVER. FERRIC FERROCYAMIDE; B, OR MOC. THE SUBSTRATE MAY ALSO BE PRE-REACTED WITH C OR B TO FORM A SUBFRATE MAY ALSO BE PRE-REACTED WITH C OR B TO FORM A SURFACE COATING. USE — IN PRODE. OF E.G. DIAMOND

专利号:(欧洲)EP467043A 专利权人:General Electric Co

WINDOWS FOR LASERS. 11PP DWG.NO.4/4).

优先权日: 1990.6.13

公人 专利简介: 生产化学气相沉积金刚石薄片的装置一利用输光基片或涂层基片,或 用缓慢的方法或延迟冷却的方式将金刚石薄片完好地移动 PATENT NO.: =DE-40066603(921008) +DE-4006660A(910905) =EP-

-445568A(910911).

TTTT.E : GRINDING DISC FOR PROFILING SPECTACLE LENS EDGES --- HAS PLASTIC BODY WITH OUTER ABRASIVE EDGE OF DIAMOND PARTICLES IN METAL, E.G.

BRONZE, AND A SUPPORTING COPPER RING.

PATENTEE : WINTER E SOHN GMB.

PATE CODS : WINT-

: B24B00914 ; B24D00500 ; B24D01800. IPC

D.W. NO. : A88; L02; P61. ACCE. NO : 91-268119. LW/FW : 09241. 09137.

PRIORITY : 90030390DE-4006660.

: GRINDING DISC FOR GRINDING THE EDGES OF

SPECTACLE LENSES HAS A CIRCULA BODY OF PLASTIC MATERIAL (3) ON WHICH IS A ONE-PIECE SOLID RING OF CU OR BONZE. A GRINDING LAYER (1) IS SINTERED ON TO THE RING AND CONSISTS OF DIAMOND AND METAL. ITS THICKNESS IS PREF. 3 MM OR LESS, WHILE THE RING IS 3-10 MM THICK.

ADVANTAGE - ALLOWS PRECISION GRINDING OF EXTREMELY

BRITTLE AND THIN GLASS. DWG. 1/2.

专利号: (韓国)DE4006660C 专利权人: Winter E & Sohn G Sohn Gmb

优先权日: 1990.3.3 公 开 日:

用于研磨软焦点透镜的磨盘一在塑性物体的外研磨刃金属(如铜)上有 金刚石颗粒月有一支撑环

PATENT NO.: +SU--853956A(911030).
TITLE : PREPN. OF SYNTHETIC DIAMOND IN MICRON SIZE---BY HEAT-TREATING POLYVINYL-CHLORIDE COKE AND CALCINING AT HIGH PRESSURE.

PATENTEE : AS USSR HIGH PRESSURE PHY.

PATE CODS : ASHI = .

IPC : CO1B03106. :: A97; E36; L02. ACCE. NO : 92-247806.

: 09230, 09230. LW/FW : 7604127680-2345163. PRIORITY

: THE STARTING MATERIAL OF CHANNEL BLACK, OR COKE FROM COMBUSTION OF POLYVINYLIDENE CHLORIDE. IS HEAT-TREATED AT 1200 DEG.C FOR 30 MIN., THEN CALCINED AT 1200-

2000 DEG.C AND PRESSURE OF 100-200 KBAR FOR 3-4 MIN. USE/ADVANTAGE - THE DIAMOND CRYSTALS OF MICRON SIZE ARF OBTD. WITH YIELD OF 90-95%, WHICH IS 1.5-2 TIMES GREATER THAN THE YIELD OF CRYSTALS OBTD. WITHOUT PRIOR HEAT-TREATMENT. BUL.40/30.10.91 DWG. 0/0.

专利号:(苏联)SU853956A

专利权人: AS USSR HIGH PRESSURE PH

优先权日: 1976.4.20 公 开 日: 专利商介: 模型人造金刚石的制备--对聚氯乙烯丝炭进行热处理和离压锻烧