RDISCLOSURE (Research Disclosure)

Subject Coverage	All areas of science and technology, i.e., all classes of the International Patent Classification.
File Type	Full text
Features	Thesaurus: None Alerts (SDIs): Monthly CAS Registry Number® Identifiers: ☐ Keep & Share: ☑ SLART: ☑ Structures: ☐
Record Content	• Full text of technical disclosures of inventions published as an alternative to the patent system. • Records contain the title, patent assignee (company and individual inventors as well as the statement 'anonymous'), patent, priority and source information, and the full text.
File Size	More than 49,646 records (11/2021)
Coverage	1960-present
Updates	Monthly
Language	English
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Sources	Monthly Journal 'Research Disclosure'
User Aids	• Online Helps (HELP DIRECTORY lists all help messages available) • STNGUIDE
Clusters	• ALLBIB • BIOSCIENCE • CHEMISTRY • ENGINEERING • FULLTEXT • HPATENTS • MATERIALS • PATENTS • PHARMACOLOGY • PNTTEXT STN Database Cluster information http://www.stn-international.com/en/customersupport/customer-support#cluster+%7C+subjects+%7C+features

Search and Display Field Codes

Fields that allow left truncation are indicated by an asterisk (*).

General Search Fields

Search Field Name	Search Code	Search Examples	Display Codes
Basic Index* (contains single words from title (TI), and the full text)	None or /BI	S SOFTWARE? S HERBICIDE# S ?LASER?	TI, TX
Accession Number	/AN	S 324009/AN	AN
Document Type (code and text)	/DT (or /TC)	S PATENT/DT	DT
Entry Date **(1)**	/ED	S ED>=OCT 2021	ED
Field Availability	/FA	S REN/FA	FA
International Standard (Document) Number (Coden and ISSN)	/ISN	S RSDSBB/ISN S 0374-4353/ISN	ISN, SO
Language (ISO code and text)	/LA	S FRENCH/LA S FR/LA	LA
Patent Assignee (includes inventors) **(4)**	/PA (or /CS)	S INTERNATIONAL BUSINESS CORPORATION/PA S M? MCDERMOTT/PA	PA
Physical Properties	/PHP	S REFRACTIVE INDEX/PHP	KWIC
Patent Number **(5)**	/PN (or /PATS)	S RD430009/PN	PI
Priority Date **(1)**	/PRD	S PRD>=20021000	PRAI
Priority Number **(5)**	/PRN (or /APPS)	S RD2002-456008/PRN	PRAI
Priority Year **(1)**	/PRY	S 1991/PRY	PRAI
Publication Date **(1)**	/PD	S PD=JAN-FEB 2002	PI
Publication Year **(1)**	/PY	S PY>1999	PI
Referenced Non-Patent Literature **(2)**	/REN	S XP000001356/REN	REN
Source (contains volume, year, and number of the printed publication, ISSN, and CODEN)	/SO	S 463/SO	SO
Title*	/TI	S ?COMPOSITE?/TI S INTERFACE/TI	TI
Update Date **(1)**	/UP	S UP>=OCT 2021	UP

(1) Numeric search field that may be searched using numeric operators or ranges.
(2) Field available for data until May 2008.
(3) Search with implied (S) proximity is available in this field.
(4) Either STN or Derwent format may be used.

Property Fields(1)

In RDISCLOSURE a numeric search for a specific set of physical properties (/PHP) is available within the text fields (TI, TX, BI). The numeric values are not displayed as single fields, but highlighted within the hit displays.

EXPAND in the /PHP field to search for all available physical properties. A search with the respective field codes will be carried out in all database fields with English text. The /PHP index contains a complete list of codes and related text for all physical properties available for numeric search.

Field Code	Property	Unit	Symbol	Search Examples
/AOS	Amount of substance	Mol	mol	S 10 /AOS
/BIR	Bit Rate	Bit/Second	bit/s	S 8000-10000/BIR
/BIT	Stored Information	Bit	Bit	S BIT > 3 MEGABIT
/CAP	Capacitance	Farad	F	S 1-10 MF/CAP
/CATA	Catalytic Activity	Katal	kat	
/CDN	Current Density	Ampere/Square Meter	A/m^2	S CDN>10 A/M**2
/CMOL	Molarity, Molar Concentration	Mol/Liter	mol/L	S UREA/BI (S) 8/CMOL
/CON	Conductance	Siemens	S	S 1S-3/CON
/DB	Decibel	Decibel	dB	S DB>50
/DEG	Degree	Degree	°	S CYLINDER/BI (S) 45/DEG
/DEN (/C)	Density (Mass Concentration	Kilogram/Cubic Meter	kg/m^3	S 5E-3-10E-3/DEN
/DEQ	Dose Equivalent	Sievert	Sv	S 100/DEQ
/DOA	Dosage	Milligram/Kilogram/Day	mg/day	
/DOS (/LD50)	Dose	Milligram/Kilogram	mg/kg	S DOS>0.8
/DV	Viscosity, dynamic	Pascal * Second	Pa * s	S DV>5000
/ECH (/CHA)	Electric Charge	Coulomb	C	S 0.0001-0.001/ECH
/ECO (/ECND)	Electrical Conductivity	Siemens/Meter	S/m	S ECO>800 S/M (15A) AQUEOUS
/ELC (/ECC)	Electric Current	Ampere	A	S 1-10/ELC
/ELF (/ECF)	Electric Field	Volt/Meter	V/m	S 200/ELF
/ENE	Energy	Joule	J	S DROPLETS (10A) 40 JOULE - 70 JOULE /ENE
/ERE (/ERES)	Electrical Resistivity	Ohm * Meter	Ohm * m	S ERE>0.1
/FOR	Force	Newton	N	S 50 N /FOR
/FRE (/F)	Frequency	Hertz	Hz	S OSCILLAT?/BI (S) 1- 3/FRE
/IU	International Unit	none	IU	S IU>1000 (P) VITAMIN A
/KV	Viscosity, kinematic	Square Meter/Second	m^2/s	S METHYLPOLYSILOXANES/BI (10A) 200-300 CST /KV
/LEN (/SIZ)	Length, Size	Meter	m	S 1-4/LEN
/LUME	Luminous Emittance, Illuminance	Lux	lx	S 10-50/LUME
/LUMF	Luminous Flux	Lumen	Lm	S LUMF>1000
/LUMI	Luminous Intensity	Candela	cd	S LUMI<4
/M	Mass	Kilogram	kg	S ALLOY/BI (30A) 1E-10-1E-5/M
/MCH	Mass to Charge Ratio	none	m/z	S MCH=1
/MFD (/MFS)	Magnetic Flux Density	Tesla	T	S MFD>102
/MFR (/MFL)	Mass Flow Rate	Kilogram/Second	kg/s	S MFR<0.1
/MFST	Magnetic Field Strength	Ampere/Meter	A/m	S 2000/MFST

Property Fields(1) (cont'd)

Field Code	Property	Unit	Symbol	Search Examples
/MM (/MW, /MOM)	Molar Mass	Gram/Mol	g/mol	S 2000-3000 G/MOL/MM
/MOLS	Molality of Substance	Mol/Kilogram	mol/kg	S 01.-10 MOL/KG/MOLS
/MVR	Melt Volume Rate, Melt Flow Rate	none	g/10 min	S 3/MVR
/PER	Percent (Proportionality)	none	%	S POLYMER?/AB (5A) 4/PER
/PHV (/PH)	pH Value	pH	pH	S 7.4-7.6/PHV
/POW (/PW)	Power	Watt	W	S "HG-XE-?"/BI (S) 100-200 WATT/POW
/PPM	Parts per million	Ppm	ppm	S 100 PPM /PPM (10A) ADDITIVE/BI
/PRES (/P)	Pressure	Pascal	Pa	S (VACUUM (5A) DISTILL?)/BI (S) 1000-1100/PRES
/RAD	Radioactivity	Becquerel	Bq	S 800-900/RAD
/RES	Electrical Resistance	Ohm	Ohm	S SENSOR /BI (S) 10- 100/RES
/RI	Refractive Index	none		S 3-4/RI
/RSP	Rotational Speed	Revolution/Minute	rpm	S 2 RPM - 100 RPM /RSP (S) ENGINE/BI
/SAR	Area /Surface Area	Square Meter	m^2	S PLATE/BI (S) 10 M**2 - 100 M**2 /SAR
/SOL (/SLB)	Solubility	Gram/100 gram	g/100 g	S SOL>20 G/100G (5A) WATER
/SSAM	Specific Surface Area, Mass	Square Meter/Kilogram	M2/kg	
/STSC (/ST)	Surface Tension	Joule /Square Meter	J/m^2	S 60 J/M**2/STSC
/TCO (/TCND)	Thermal Conductivity	Watt/Meter * Kelvin	W/m * K	S 1/TCO (S) HEAT?
/TEMP (/T)	Temperature	Kelvin	K	S 20-25/TEMP
/TEX	Tex	Gram/Kilometer	g/km	
/TIM	Time	Second	s	S ?INCUB?/BI (10A) 50 S - 150 S /TIM
/VEL (/V)	Velocity	Meter per Second	m/s	S REDUC?/BI (S) 1E-3-5E-3/VEL
/VELA	Velocity, angular	Radian/Second	rad/s	S VELA>10
/VLR	Volumetric Flow Rate	Cubic Meter/Second	m^3/s	S 1 M**3/S - 2 M**3/S /VLR (S) ABRASIVE
/VOL	Volume	Cubic Meter	m^3	S 1E-8-2E-8/VOL.EX
/VOLT	Voltage	Volt	V	S TENSION/BI (10A) 5E-3 V <VOLT<7E-3 V

(1) Exponential format is recommended for the search of particularly high or low values, e.g. 1.8E+7 or 1.8E7 (for 18000000) or 9.2E-8 (for 0.000000092).

DISPLAY and PRINT Formats

Any combination of formats may be used to display or print answers. Multiple codes must be separated by spaces or commas, e.g., D L1 1-5 TI AU. The fields are displayed or printed in the order requested.

Hit-term highlighting is available for all fields. Highlighting must be ON during SEARCH to use the HIT, KWIC, and OCC formats.

Format	Content	Examples
AN	Accession Number	D 1-5 AN
DT (TC)	Document Type	D DT
ED **(1)**	Entry Date	D ED
FA **(1)**	Field Availability	D FA
ISN **(1)**	International Standard (Document) Number	D ISN
LA	Language	D LA TI
PA (CS)	Patent Assignee	D PA
PI (PN) **(2)**	Patent Information	D PI
PRAI (PRN) **(2)**	Priority Information	D PRAI
REN	Referenced Non-Patent Literature	D REN
SO	Source	D SO
TI	Title	D TI 1-10
TX	Text	D TX
UP **(1)**	Update Date	D UP
ABS	TX	D ABS
ALL (MAX) **(2)**	AN, TI, PA, PI, PRAI, REN, SO, LA, DT, TX	D 1-3 ALL
IALL **(3)**	ALL, indented with text labels	D IALL
BIB (STD) **(2)**	AN, TI, PA, PI, PRAI, REN, SO, LA, DT (BIB is the default)	D BIB
IBIB **(2)**	BIB, indented with text labels	D IBIB
SCAN **(3)**	TI (random display without answer numbers)	D SCAN
TRIAL (TRI, SAMPLE, SAM, FREE)	TI	D TRIAL
HIT	Hit term(s) and field(s)	D HIT
KWIC	Up to 50 words before and after hit term(s) (KeyWord-In-Context)	D KWIC
OCC	Number of occurrences of hit term(s) and field(s) in which they occur	D OCC

(1) Custom display only.
(2) By default, patent numbers, and priority numbers are displayed in STN Format. To display them in Derwent format, enter SET PATENT DERWENT at an arrow prompt. To reset display to STN Format, enter SET PATENT STN.
(3) SCAN must be specified on the command line, i.e., D SCAN or DISPLAY SCAN.

SELECT, ANALYZE, and SORT Fields

The SELECT command is used to create E-numbers containing terms taken from the specified field in an answer set.

The ANALYZE command is used to create an L-number containing terms taken from the specified field in an answer set.

The SORT command is used to rearrange the search results in either alphabetic or numeric order of the specified field(s).

Field Name	Field Code	ANALYZE/ SELECT (1)	SORT
Accession Number	AN	Y	N
Document Type	DT (TC)	Y	Y
Entry Date	ED	Y	N
Language	LA	Y	Y
Occurrence Count of Hit Terms	OCC	N	Y
Patent Assignee	PA (CS)	Y	Y
Patent Information	PI (PN)	Y	Y
Priority Date	PRD	Y	Y
Priority Information	PRAI (PRN)	Y	Y
Priority Year	PRY	Y	Y
Referenced Non-Patent Literature	REN	Y	Y
Source	SO	Y	Y
Text	TX	Y	N
Title	TI	Y (default)	Y
Update Date	UP	Y	N

(1) HIT may be used to restrict terms extracted to terms that match the search expression used to create the answer set, e.g., SEL HIT TI.

Sample Records

DISPLAY ALL

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AN     689058   RDISCLOSURE
TI     Sleeve roll belt with pre-tightened yarns
PA     anonymous
PI     RD 689058                 20210910
PRAI   RD 2021-689058           20210823
SO     Research Disclosure (10 Sep 2021), Volume 689, pp. 1
       CODEN: RSDSBB  ISSN: 0374-4353
DT     Patent
LA     English
ED     Entered STN: 14 Oct 2021
       Last updated on STN: 14 Oct 2021
TX     Sleeve roll belt with pre-tightened yarns
       Sleeve roll technology is described for example in patent publications
       EP3382094, EP3333314 and EP3333315.  One possible composition for the
       sleeve roll belt body is published with patent number EP2367980.
       However, the body of the belt can comprise other polymers and materials
       too.  Structures of sleeve roll belt will be/are published with patent
       applications EP20175590 and EP20175592.  The belt for a sleeve roll
       comprises an inner surface and an outer surface.  The belt can form a
       closed loop and comprise an elastic body, and a reinforcing structure.
       The reinforcing structure can be a support structure supporting the
       elastic body.  The reinforcing structure can comprise first yarns
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forming a first yarn layer. The reinforcing structure can further comprise second yarns forming a second yarn layer. The second yarn layer can be the outermost yarn layer closest to the outer surface of the belt. The first yarns are arranged to a first direction, and the second yarns are arranged to a second direction. The second direction is preferably perpendicular or substantially perpendicular to the first direction. The second direction can further be parallel or substantially parallel to a travel direction of the belt. Further, the first direction can be parallel or substantially parallel to an axis of rotation of the belt and the number of reinforcing yarn layers can be from one to five. The first direction is from now on called machine direction and is marked to the Figure 1 with letters MD. Sleeve roll belt is also marked to the Figure 1.

Figure 1. Sleeve roll and sleeve roll belt.

The present invention is related to the manufacturing method, where the yarns in MD direction are pre-tightened. During the manufacturing the pre-tightened MD yarns are arranged to the elastic body. The pre-tightened MD yarns can be arranged to the outer surface or substantially close to the outer surface of the belt. The pre-tightened MD yarns can also be arranged to any depth of the sleeve roll belt measured from the outer surface. Pre-tightening of the MD yarns can move the neutral axis closer to the outer surface compared to the yarn arrangement without pre-tightening. The closer the neutral axis is located to the outer surface, the smaller is the slipping effect between the belt and forming fabric when the belt is bending on top of the curve element, see Figure 1. The smaller is the slipping effect between the surfaces, the lower is the friction factor between belt and forming fabric. Due to smaller friction factor between the surfaces, the wearing of the wire and belt can also be reduced. Pre-tensioning of the MD wires can thus facilitate savings in energy consumption.

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