

# 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  Alerts (SDIs)  CAS Registry  Number® Identifiers	None Monthly				
	Keep & Share	$\overline{\mathbf{V}}$	SLART	$\overline{\checkmark}$		
			Structures			
Record Content	<ul> <li>Full text of technical disclosures of inventions published as an alternative to the patent system.</li> <li>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.</li> </ul>					entors as well
File Size	More than 49,646 i	ecords (11	/2021)			
Coverage	1960-present					
Updates	Monthly					
Language	English					
Database Producer	Questel Ireland Ltd Killernan, Kilmaine Co. Mayo Republic of Ireland Phone: +353 93 33 Copyright Holder					

#### **RDISCLOSURE**

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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
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# **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	/ISN	S RSDSBB/ISN	ISN, SO
(Document) Number (Coden and ISSN)		S 0374-4353/ISN	
Language	/LA	S FRENCH/LA	LA
(ISO code and text)		S FR/LA	
Patent Assignee	/PA	S INTERNATIONAL BUSINESS	PA
(includes inventors) (4)	(or /CS)	CORPORATION/PA	
DI 1 ID 11	(DLID	S M? MCDERMOTT/PA	101110
Physical Properties	/PHP	S REFRACTIVE INDEX/PHP	KWIC
Patent Number (5)	/PN	S RD430009/PN	PI
Priority Date (1)	(or /PATS) /PRD	S PRD>=20021000	PRAI
Priority Number (5)	/PRN	S RD2002-456008/PRN	PRAI
Thomas (G)	(or /APPS)	G NB2002 100000/1 NIV	170 (1
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	SINTERFACE/TI S UP>=OCT 2021	UP

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

#### **RDISCLOSURE**

## **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.

/LEN Length, Size Meter m S 1-4/LEN  (/SIZ) /LUME Luminous Emittance, Illuminance /LUMF Luminous Flux Lumen Lm S LUMF>1000 /LUMI Luminous Intensity Candela Kg S ALLOY/BI (30A) 1E-10-1E-5/M	Field Code	Property	Unit	Symbol	Search Examples
Bit Rate   Stored Information   CAP   CATA   Catalytic Activity   CON   Capacitance   CATA   Catalytic Activity   CON   Current Density   Molarity, Molar   Concentration   Conductance   CATA   Concentration   CON   Conductance   Concentration   CON   Conductance   Degree   Degree   Degree   Degree   Degree   Described   Dose Equivalent   Dose Equivalent   CON   CON   CON   Conductance   CON   Described   Desc	/AOS	Amount of substance	Mol	mol	S 10 /AOS
Bit   CAP   Capacitance   Farad   Katal   Ka			Bit/Second	bit/s	
/CAP /CATA /CATA /CDN         Capacitance Catalytic Activity /CDN         Farad Katal         F Katal         \$ 1-10 MF/CAP           /CDN /CMOL         Current Density Molarity, Molar Concentration         Mol/Liter         A/m² Mol/Liter         \$ CDN>10 A/M**2           /CON /DB /DEG         Concentration         Siemens         S Decibel         S Decibel         S Decibel           /DEQ /DEN (/C)         Density (Mass Concentration         Kilogram/Cubic Meter Concentration         Kg/m³ Sievert         S CDN>10 A/M**2           /DOA /DOS (/LD50)         Dosage Moliligram/Kilogram/Day Moliligram/Kilogram/Day Moliligram/Kilogram/Day Moliligram/Kilogram/Day Moliligram/Kilogram/Day Moliligram/Kilogram/Day Moliligram/Kilogram         S T00/DEQ           /DOA (/ECN) (/ECN) /ELC         Viscosity, dynamic Electric Charge         Pascal * Second Coulomb         Pa * s Coulomb         S DV>5000           /ECO (/ECND) /ELC         Electrical Conductivity         Siemens/Meter         S/m         S ECO>800 S/M (15A) AQUEOUS           /ECF (/ECF) /ENE         Electric Field         Volt/Meter         V/m         S 200/ELF           /ERE (/ERES) /FOR /FOR /FOR /FOR         Joule         J         S DROPLETS (10A) 40 JOULE - 70 JOULE /ENE           /ERE (/ERES) /FOR         Force Frequency International Unit /KV         Newton         N         S 50 N/FOR S ERE>-0.1           /FOR /FOR /FOR <t< td=""><td></td><td></td><td></td><td></td><td></td></t<>					
/CATA /CDN /CDN /CMOL         Catalytic Activity Current Density Molarity, Molar Concentration         Katal Ampre/Square Meter Mol/Liter         kat Ampre/Square Meter Mol/Liter         kat Ampre/Square Meter Mol/Liter         S CDN>10 A/M**2 S CDN>10 A/M**2           /CON /CON /DB /DEG /DEG /DEN (/C)         Siemens Decibel         S B B B Decibel         S B B B B B B B Decibel         S B B B B B B B B B B B B B B B B B B B					
/CDN   /CMOL   Current Density   Molar   Concentration   Molarity, Molar   Concentration   Decibel   Degree   S					0 1 10 Wii 707 W
CMOL   Molarity, Molar   Concentration   Conductance   Concentration   Conductance   Concentration   Conductance   Concentration   Conductance   Concentration   Conductance   Concentration   Conductance   Degree   Degree   Degree   Degree   Degree   S CYLINDER/BI (S) 45/DEG   S Equivalent   Concentration   Concentr					S CDN> 10 A /M**2
Concentration					
DB		Concentration			
Degree	/CON	Conductance	Siemens	S	S 1S-3/CON
/DEN (/C)         Density (Mass Concentration Dose Equivalent Dose Milligram/Kilogram/Day Milligram/Kilogram S DOS>0.8         \$ 100/DEQ           //DA         Viscosity, dynamic Electric Charge Coulomb         Pa * s S DV>5000         \$ DV>5000           //ECH         Electric Charge Coulomb         C S 0.0001-0.001/ECH         \$ 0.0001-0.001/ECH           //ECO         Electrical Conductivity         Siemens/Meter         S/m         \$ ECO>800 S/M (15A) AQUEOUS           //ECD         Electric Current         Ampere         A S 1-10/ELC         \$ 200/ELF           //ECC (/ECC)         Electric Field         Volt/Meter         V/m         \$ 200/ELF           //ECC /(FECC)         Electrical Resistivity         Ohm * Meter         Ohm * m         \$ ERE>0.1           //ERE (/ERES)         Force         Newton         N         \$ 50 N /FOR           //FRE (/F)         I/LU Illuminational Unit Viscosity, kinematic	/DB	Decibel	Decibel	dB	S DB>50
Concentration   Dose Equivalent   Dose Equivalent   Dose Equivalent   Dose Equivalent   Dose Equivalent   Dose   Milligram/Kilogram   mg/day   mg/day   mg/day   mg/kg   S DOS>0.8	/DEG	Degree	Degree	0	S CYLINDER/BI (S) 45/DEG
DEQ   Dose Equivalent   Dosage   Dose Equivalent   Dosage   Dosage   Dose   Milligram/Kilogram   mg/day   mg/day   mg/day   mg/kg   S DOS>0.8	/DEN (/C)		Kilogram/Cubic Meter	kg/m³	S 5E-3-10E-3/DEN
DOS		Dose Equivalent			S 100/DEQ
/DV /ECH (/CHA) /ECO (/ECND)         Viscosity, dynamic Electric Charge         Pascal * Second Coulomb         Pa * s C         S DV>5000 S 0.0001-0.001/ECH           /ECO (/ECND) /ELC (/ECC)         Electrical Conductivity         Siemens/Meter         S/m         S ECO>800 S/M (15A) AQUEOUS           /ECD (/ECND) /ELC (/ECC)         Electric Current         Ampere         A         S 1-10/ELC           /ELC (/ECC)         Electric Field         Volt/Meter         V/m         S 200/ELF           /ENE         Electrical Resistivity         Ohm * Meter         Ohm * m         S ERE>0.1           /ERE (/ERES) /FOR         Force Frequency Ilu         Newton Hertz none         N         S 50 N /FOR S OSCILLAT?/BI (S) 1- 3/FRE IU none         S OSCILLAT?/BI (S) 1- 3/FRE S UJU-1000 (P) VITAMIN A           /KV         Viscosity, kinematic         Square Meter/Second         m²/s         S METHYLPOLYSILOXANES/BI (1 200-300 CST /KV           /LUME //UMF         Luminous Emittance, Illuminance Luminous Flux /LUMI         Lumen Candela         Lm         S LUMF>1000 S LUMF>1000 S LUMF>1000 (S 0.001/ECH           // Mass         Kilogram         Kg         S ALLOY/BI (30A) 1E-10-1E-5/M	/DOS				S DOS>0.8
/ECH (/CHA)Electric ChargeCoulombCS 0.0001-0.001/ECH/ECO (/ECND)Electrical ConductivitySiemens/MeterS/mS ECO>800 S/M (15A) AQUEOUS/ELC (/ECND)Electric CurrentAmpereAS 1-10/ELC/ELF (/ECC)Electric FieldVolt/MeterV/mS 200/ELF/ENEEnergyJouleJS DROPLETS (10A) 40 JOULE - 70 JOULE /ENE/ERE (/ERES)Electrical ResistivityOhm * MeterOhm * mS ERE>0.1/FOR /FORForce Frequency International Unit /KVNewton Hertz noneN Hertz noneS 50 N /FOR Hertz None/LEN (/SIZ) /LUMELength, SizeMeterMeterS METHYLPOLYSILOXANES/BI (1 200-300 CST /KV/LUMF /LUMF /LUMILuminous Emittance, Illuminance Luminous Flux Luminous IntensityLumen Candela KilogramLm KilogramS LUMF>1000 S LUMI Candela Kilogram		Viscosity dynamic	Pascal * Second	Pa * c	S DV>5000
/CCHA) /ECO /ECO /ECO /ECCND) /ELC /ECCC /ELF /ECCF /ELF /ENE /ENE /ENE /ENE /ENE /ENE /ENE /EN					
(/ECND) /ELC (/ECC)Electric CurrentAmpereAS 1-10/ELC//ELF (/ECF)Electric FieldVolt/MeterV/mS 200/ELF//ENEEnergyJouleJS DROPLETS (10A) 40 JOULE - 70 JOULE /ENE//ERE (/ERES)Electrical ResistivityOhm * MeterOhm * mS ERE>0.1//ERE (/ERES)Force /FORNewton Hertz noneNS 50 N /FOR S OSCILLAT?/BI (S) 1- 3/FRE//IU //KVInternational Unit Viscosity, kinematicHertz noneHz S OSCILLAT?/BI (S) 1- 3/FRE S METHYLPOLYSILOXANES/BI (1 200-300 CST /KV//LEN (/SIZ) //LUMELength, Size Uminious Emittance, Illuminance /LUMF /LUMI /LUMI /LUMIOUS IntensityMetermS 1-4/LEN//LUMF //LUMI //MLuminous Flux Luminous Intensity /MLumen Candela KilogramLm KilogramS LUMF>1000 S LUMI Kg	(/CHA)				
/ELC (/ECC)Electric CurrentAmpereA\$ 1-10/ELC/ELF (/ECF)Electric FieldVolt/MeterV/m\$ 200/ELF/ENEEnergyJouleJ\$ DROPLETS (10A) 40 JOULE - 70 JOULE /ENE/ERE (/ERES)Electrical ResistivityOhm * MeterOhm * m\$ ERE>0.1/ERE (/ERES)Force ForceNewton Hertz noneN\$ 50 N /FOR/FRE (/F) /IUInternational Unit NoneHz Hertz none\$ OSCILLAT?/BI (\$) 1-3/FRE/IUSUJ-1000 (P) VITAMIN A/KVViscosity, kinematicSquare Meter/Secondm²/s\$ METHYLPOLYSILOXANES/BI (1 200-300 CST /KV/LEN (/SIZ) /LUMELuminous Emittance, IlluminanceLuxIx\$ 10-50/LUME/LUMF /LUMF /LUMI /LUMI /LUMI /LUMI /LUMI /LUMI /LUMI /MLumen Candela KilogramLm Candela KilogramLm Candela Kg\$ ALLOY/BI (30A) 1E-10-1E-5/M		Electrical Conductivity	Siemens/Meter	S/m	S ECO>800 S/M (15A) AQUEOUS
/ELF (/ECF)Electric FieldVolt/MeterV/mS 200/ELF/ENEEnergyJouleJS DROPLETS (10A) 40 JOULE - 70 JOULE /ENE/ERE (/ERES)Electrical ResistivityOhm * MeterOhm * mS ERE>0.1/FOR /FOR /FRE (/F)Force Frequency International Unit /KVNewton Hertz noneN Hertz NoneS 50 N /FOR Hertz NoneS OSCILLAT?/BI (S) 1- 3/FRE S OSCILLAT?/BI (S) 1- 3/FRE IU S IU>1000 (P) VITAMIN A S METHYLPOLYSILOXANES/BI (1 200-300 CST /KV/LEN (/SIZ) /LUMELength, SizeMetermS 1-4/LEN/LUMELuminous Emittance, IlluminanceLuxIxS 10-50/LUME/LUMF /LUMI /MLuminous Flux Luminous IntensityLumen Candela KilogramLm Candela KilogramLm S LUMF>1000 S LUMI S ALLOY/BI (30A) 1E-10-1E-5/M		Electric Current	Ampere	Α	S 1-10/ELC
/ENE Energy Joule J S DROPLETS (10A) 40 JOULE - /ERE Electrical Resistivity Ohm * Meter Ohm * m S ERE>0.1  /FOR Force Newton N S 50 N /FOR /FRE (/F) Frequency Hertz None IU S IU>1000 (P) VITAMIN A /KV Viscosity, kinematic Square Meter/Second Meter Mete	/ELF	Electric Field	Volt/Meter	V/m	S 200/ELF
/ERE (/ERES) /FORElectrical ResistivityOhm * MeterOhm * mS ERE>0.1/FOR /FOR /FOR /FRE (/F) /IUForce Frequency International Unit /KVNewton Hertz noneN Hz IU S OSCILLAT?/BI (S) 1- 3/FRE IU S IU>1000 (P) VITAMIN A Square Meter/Second/KVViscosity, kinematicSquare Meter/Secondm²/sS METHYLPOLYSILOXANES/BI (1 200-300 CST /KV/LEN (/SIZ) /LUMELuminous Emittance, IlluminanceLuxIxS 10-50/LUME/LUMF /LUMI /MLuminous Flux Luminous Intensity /MLumen Candela KilogramLm Candela KgS LUMF>1000 S LUMI S ALLOY/BI (30A) 1E-10-1E-5/M		Energy	Joule	J	
/FOR /FRE (/F) Frequency   Hertz   none   IU   S IU>1000 (P) VITAMIN A   S IU>1000 (P) VITAMIN A		Electrical Resistivity	Ohm * Meter	Ohm * m	
/FRE (/F)		Force	Newton	N	S 50 N /FOR
/IU International Unit Viscosity, kinematic Square Meter/Second Square Meter/Second Substituting Square Meter/Second Square Meter/Second Square Meter/Second Spare Meter Square Meter/Second Spare Meter Square Meter/Second Spare Meter Square Meter/Second Spare					
/KV Viscosity, kinematic Square Meter/Second m²/s S METHYLPOLYSILOXANES/BI (1 200-300 CST /KV S 1-4/LEN (/SIZ) /LUME Luminous Emittance, Illuminance /LUMF /LUMI Luminous Intensity /M Mass Kilogram kg S ALLOY/BI (30A) 1E-10-1E-5/M					
/LEN (/SIZ)     Length, Size     Meter     m     S 1-4/LEN       /LUME     Luminous Emittance, Illuminance     Lux     lx     S 10-50/LUME       /LUMF /LUMI     Luminous Flux Luminous Intensity     Lumen Candela     Lm     S LUMF>1000 S LUMI<4					S METHYLPOLYSILOXANES/BI (10A)
/LÜME     Luminous Emittance, Illuminance     Lux     Ix     S 10-50/LUME       /LUMF     Luminous Flux     Lumen     Lm     S LUMF>1000       /LUMI     Luminous Intensity     Candela     cd     S LUMI       /M     Mass     Kilogram     kg     S ALLOY/BI (30A) 1E-10-1E-5/M		Length, Size	Meter	m	
/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			Lux	lx	S 10-50/LUME
/LUMI Luminous Intensity Candela cd S LUMI<4 /M Mass Kilogram kg S ALLOY/BI (30A) 1E-10-1E-5/M	/LUME		Lumen	l m	STUME>1000
/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 Magnetic Flux Tesla T S MFD>102					
(/MFS) Density	(/MFS)	Density			
/MFR Mass Flow Rate Kilogram/Second kg/s S MFR<0.1		Mass Flow Rate	Kilogram/Second	kg/s	S MFR<0.1
/MFST Magnetic Field Ampere/Meter A/m S 2000/MFST 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 /MVR	Molality of Substance Melt Volume Rate, Melt Flow Rate	Mol/Kilogram none	mol/kg g/10 min	S 0110 MOL/KG/MOLS S 3/MVR
/PER	Percent (Proportionality)	none	%	S POLYMER?/AB (5A) 4/PER
/PHV (/PH)	pH Value	рН	рН	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 /RES	Radioactivity Electrical Resistance	Becquerel Ohm	Bq Ohm	S 800-900/RAD S SENSOR /BI (S) 10- 100/RES
/RES	Refractive Index	none	Onni	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	m²	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/m²	S 60 J/M**2/STSC
/TCO (/TCND)	Thermal Conductivity	Watt/Meter * Kelvin	W/m * K	S 1/TCO (S) HEAT?
/TEMP (/T)	Temperature Tex	Kelvin Gram/Kilometer	K g/km	S 20-25/TEMP
/TIM	Time	Second	s	S ?INCUB?/BI (10A) 50 S - 150 S /TIM
/VEL (/V) /VELA /VLR	Velocity Velocity, angular Volumetric Flow Rate	Meter per Second Radian/Second Cubic Meter/Second	m/s rad/s m³/s	S REDUC?/BI (S) 1E-3-5E-3/VEL S VELA>10 S 1 M**3/S - 2 M**3/S /VLR (S) ABRASIVE
/VOL /VOLT	Volume Voltage	Cubic Meter Volt	m³ V	S 1E-8-2E-8/VOL.EX S TENSION/BI (10A) 5E-3 V <volt<7e-3 td="" v<=""></volt<7e-3>

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

<sup>(1)</sup> 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	Υ	N
Document Type	DT (TC)	Υ	Υ
Entry Date	ED	Υ	N
Language	LA	Υ	Υ
Occurrence Count of Hit Terms	OCC	N	Υ
Patent Assignee	PA (CS)	Υ	Υ
Patent Information	PI (PN)	Υ	Υ
Priority Date	PRD	Υ	Υ
Priority Information	PRAI (PRN)	Υ	Υ
Priority Year	PRY	Υ	Υ
Referenced Non-Patent Literature	REN	Υ	Υ
Source	SO	Υ	Υ
Text	TX	Υ	N
Title	TI	Y (default)	Υ
Update Date	UP	Y	N

<sup>(1)</sup> 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**

AN 689058 RDISCLOSURE

TI Sleeve roll belt with pre-tightened yarns

PA anonymous

PI RD 689058 20210910 PRAI RD 2021-689058 20210823

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. 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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