

## PATDPAFULL

**Subject Coverage** All patent relevant areas of science and technology, i.e., all classes of the International Patent Classification

**File Type** Full text

**Features**

Thesaurus	International Patent Classification (/IPC)				
<a href="#">Alerts (SDIs)</a>	Weekly				
CAS Registry Numbers®	<input type="checkbox"/>	Page Images	<input type="checkbox"/>	STN AnaVist	<input type="checkbox"/>
<a href="#">Keep &amp; Share</a>	<input checked="" type="checkbox"/>	<a href="#">SLART</a>	<input checked="" type="checkbox"/>	<a href="#">STN Easy</a>	<input checked="" type="checkbox"/>
Learning Database	<input type="checkbox"/>	Structures	<input type="checkbox"/>	STN Viewer	<input type="checkbox"/>

**Record Content**

- Records contains the full text of German published patent applications (Offenlegungsschriften) from 1981, granted patents (Patentschriften) from 1981, translations of European patent documents (T2, T3, T4 documents) from 1992, translations of PCT-applications (T5 documents) from 2004, as well as German utility models (Gebrauchsmuster) from 1981, filed by the German Patent and Trademark Office.
- Each document contains the bibliographic data, the abstract, all claims, and the full text of the description. Front page images are also included, when available.
- Database records comprise all documents published for one application.
- Clipped images (mostly front-page images) from 1989 onwards are also included, when available.
- Legal status data, family and citation display formats from the INPADOCDB database are available.

**File Size** More than 2.68 million records (12/11)  
More than 620,000 images from 1995 onwards (12/11)

**Coverage** 1981-present

**Updates** Weekly

**Language** German

**Database Producer** Deutsches Patent- und Markenamt  
Zweibrückenstr. 12  
80331 München  
Germany  
Phone: +49 89/2195-1  
Fax: +49 89/2195-2221  
Copyright Holder

**Database Supplier** FIZ Karlsruhe  
STN Europe  
P.O. Box 2465  
76012 Karlsruhe  
Germany  
Phone: +49-7247-808-555  
Fax: +49-7247-808-259  
E-mail: [helpdesk@fiz-karlsruhe.de](mailto:helpdesk@fiz-karlsruhe.de)

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**Sources** Patent applications (Offenlegungsschriften), granted patents (Patentschriften), and German utility models (Gebrauchsmuster) published by the German Patent and Trade Mark Office (Deutsches Patent- und Markenamt, DPMA)

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**User Aids**

- Online Helps (HELP DIRECTORY lists all help messages available)
- STNGUIDE

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**Clusters**

- ALLBIB
- AUTHORS
- CORPSOURCE
- ENGINEERING
- FULLTEXT
- HPATENTS
- PATENTS
- PNTTEXT

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[STN Database Cluster](#) information (PDF)

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**Related Databases** PATDPA, PATDPASPC

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**Pricing** See the [STN Price List](#) or enter HELP COST at an arrow prompt.

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## Search and Display Field Codes

When multiple search terms are linked with and AND-operator, all terms are searched in the complete database record, i.e. in all publications referring to one application. For a search in a specific publication of the record, connect the search term and the patent kind code with the (L)-proximity operator, e.g. S ELEKTRIZITAET/AB, TI, CLM (L) DEB4/PK limits the search to German patents DEB4.

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 Abstract (AB), title (TI), claims (CLM), and detailed description (DETD) fields)	None or /BI	S KUEHLUNG (S) ACHSE?	AB, CLM, DETD, TI
Abstract*	/AB	S (METALLPLATTE AND ELASTIZITAET)/AB	
Accession Number	/AN	S DE19983487/AN	AN
Agent (1)	/AG	S HENKEL MUENCHEN/AG	AG
Application Country (WIPO code and text)	/AC	S EP/AC	AI
Application Date (2)	/AD	S AD=AUG 2002	AI
Application Kind Code	/AK	S EPA/AK	AI
Application Number (3)	/AP	S DE2000-10000011/AP	AI
Application Year (2)	(or /APPS) /AY	S 1999-2000/AY	AI
Claims*	/CLM	S TELEKOMMUNIKATIONSNETZWERK/CLM	CLM
Document Type (code and text)	/DT (or /TC)	S UTILITY MODEL/DT	DT
Entry Date (2)	/ED	S ED>FEB 2010	ED
Entry Week (2)	/EW	S 199901-199905/EW	EW
Field Availability	/FA	S KOSMETISCH? AND LAF/FA	FA
International Patent Classification (main and secondary)	/IC	S B60B007-02/IC S B60B007/IC	IC
Inventor and Address (current and old)	/IN (or /AU)	S PETERS/IN S PETERS BERNHARD?/IN	IN
Inventor, Country	/IN.CNY	S SPAIN/IN.CNY	IN, IN.CNY
IPC (contains ICM, ICS, ICA, ICI, IPCI, IPCR) (4)	/IPC	S A01B001/IPC S H05B0006-36-H05B0006-44/IPC S H05B0006-36+NT/IPC S H01R/ICM (L) 15-23/MGR	IPC
IPC Main Group (range searchable) (2,5)	/MGR		not displayed
IPC Subgroup Range-Searchable (2,5)	/SGR	S 600-650/SGR	not displayed
IPC, Action Date (2)	/IPC.ACD	S 13 JAN 2006/IPC.ACD	IPC.TAB
IPC, Additional (supplementary)	/ICA	S F01N003/ICA	ICA
IPC, Index (complementary)	/ICI	S C07D205:08/ICI	ICI
IPC, Initial	/IPCI	S H01L0023-29/IPCI	IPCI
IPC, Keyword Terms	/IPC.KW	S C12N0009/IPC (S) I/IPC.KW	IPC.TAB
IPC, Main	/ICM	S B21B001-00/ICM	ICM
IPC, Reclassified	/IPCR	S C08L0061-00/IPCR	IPCR
IPC, Secondary	/ICS	S C01B003-12/ICS	ICS
IPC, Version	/IPC.VER	S 200601/IPC.VER	IPC.TAB
Language (code and text)	/LA	S DE/LA	LA
Language, Filing (code and text)	/LAF	S FRENCH/LAF S FR/LAF	LAF
Main Claim*	/MCLM	S FOLSAEURE/MCLM	MCLM
Number of Claims (2)	/CLMN	S CLMN>=8 AND L2	CLMN
Number of Detailed Description (2)	/DETN	S DETN < 9	DETN

## PATDPAFULL

## General Search Fields (cont'd)

Search Field Name	Search Code	Search Examples	Display Codes
Patent Assignee and Address (1)	/PA (or /CS)	S MELITTA/PA	PA
Patent Assignee, Country Patent Country (WIPO code and text)	/PA.CNY /PC	S NETHERLANDS/PA.CNY S (WO OR EP)/PC	PA, PA.CNY PI
Patent Information Publication Type	/PIT	S WOA WO-PUBLIKATION DER PCT-PATENTANMELDUNG/PIT	PIT
Patent Kind Code	/PK	S DEC2/PK	PI
Patent Number (3)	/PN (or /PATS)	S DE20020004/PN	PI
Patent Number/Kind Code	/PNK	S DE1000006C2/PNK	PNK
Priority Country (WIPO code and text)	/PRC	S AU/PRC S AUSTRIA/PRC	PRAI
Priority Date (2)	/PRD	S MAY 1999 - JUN 2000/PRD	PRAI
Priority Number (3)	/PRN	DE2000-10000158/PRN	PRAI
Priority Year (2)	/PRY	S 2000-2001/PRY	PRAI
Priority Year, First (2)	/PRYF	S PRYF<1989	
Publication Date (2)	/PD	S 20030227/PD	PI
Publication Year (2)	/PY	S PY>=2001	PI
Referenced Non-Patent Literature	/REN	S KRAFTWERKSTECHNIK/REN	REN
Referenced Patent Country	/RPC	S DK/RPC S DENMARK/RPC	REP
Referenced Patent Number (by examiner) (3)	/RPN	S 43434319752 A1/RPN	REP
Related Application Country (WIPO code and text)	/RLC	S DE/RLC	RLI
Related Application Date (2)	/RLD	S 19990119/RLD	RLI
Related Application Number (3)	/RLN	S DE2000-10000447/RLN	RLI
Related Application Type	/RLT	S ADD ZUSATZANMELDUNG/RLT	RLI
Related Application Year (2)	/RLY	S 2002/RLY	RLI
Serial Number	/SN	S DE10000011.8/SN	SN
Title*	/TI	S ROTATION?/TI	TI
Update Date (2)	/UP	S UP = MAR 2003	UP

(1) Search with implied (S) proximity is available in this field.

(2) Numeric search field that may be searched using numeric operators or ranges.

(3) By default, patent numbers, application 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.

(4) A thesaurus is available in this field.

(5) Valid until IPC version 7 only.

## Super Search Fields

Enter a super search field to execute a search in one or more fields that may contain the desired information. Super search fields facilitate crossfile and multifile searching. EXPAND may not be used with super search fields. Use EXPAND with the individual field codes instead.

Search Field Name	Search Code	Fields Searched	Search Examples	Display Codes
Short Basic Index Application Number Group	/SBI /APPS	/AB, /MCLM, /TI /APPS	S ANATOMIE/SBI S EP2008-160800/APPS	AB, TI, MCLM AI, PRAI

## International Patent Classification (/IPC) Thesaurus

The classifications, validity and catchwords for the main headings and subheadings from the current (8th) edition of the WIPO International Patent Classification (IPC) manual are available. The classifications from the previous editions (1-7) are also available as separate thesauri. To EXPAND and SEARCH in the thesauri for editions 1-7, use the field code followed by the edition number, e.g., /IPC2, for the 2nd edition. Catchwords are included only in the thesauri for the 8th, 7th, 6th, and 5th editions.

Code	Content	Examples
ADVANCED (ADV)	Advanced Codes for the Core Level IPC Code	E A61K0006-02+ADVANCED/IPC
ALL	All Associated Terms (BT, SELF, NT, RT)	E C01C003-00+ALL/IPC
BRO (MAN)	Complete Class	E C01C+BRO/IPC
BT	Broader Term (BT, SELF)	E C01F001-00+BT/IPC
CORE (COR)	Core Codes for the Advanced Level IPC Code	E G08C0019-22+CORE/IPC
ED	Complete title of the SELF term and IPC manual edition	E C01F001-00+ED/IPC
HIE	Hierarchy Term (Broader and Narrower Term) (BT, SELF, NT)	E C01B003-00+HIE/IPC
INDEX	Complete title of the SELF term	E C01F001-00+INDEX/IPC
KT	Keyword Term (catchwords) (SELF, KT)	E CYANOGEN+KT/IPC
NEXT	Next Classification	E C01C001-00+NEXT5/IPC
NT	Narrower Terms (SELF, NT)	E C01C+NT/IPC
PREV	Previous Classification	E C01C001-12+PREV10/IPC
RT (SIB)	Related Terms (SELF, RT)	E C01C003-20+RT/IPC
TI	Complete Title of the SELF Term and Broader Terms (BT, SELF)	E C01F001-00+TI/IPC

## 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.

The information of the latest publication is displayed by default. To display the content for all levels of the record you can combine all display fields and formats with the qualifier .M except FA, FAM, CFAM, LS, LS2, SCAN, and TRIAL.

For displaying a particular publication of a database record, you can simply add for certain display field the kind code to the appropriate display format, e.g. ALL.A1. Fields that allow this are indicated by a number (3).

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
AB	Abstract	D TI AB 1-5
AG	Agent	D AG
AI (1)	Application Information	D AI
AN	Accession Number	D L3 AN
CLM (3)	Claims	D CLM
CLMN (3)	Number of Claims	D CLMN
DETD (3)	Detailed Description	D DETD
DETN (3)	Number of Detailed Description	D DETN
DT (TC)	Document Type	D DT LA
ED	Entry Date	D ED
EW	Entry Week	D EW
FA	Field Availability	D FA
GI	Graphic Image	D GI
GIS (2)	Graphic Image Size	D GIS
IC	International Patent Classification (ICM, ICS)	D IC
ICA	IPC, Additional (Supplementary)	D ICA

**DISPLAY and PRINT Formats (cont'd)**

Format	Content	Examples
ICI	IPC, Index (Complementary)	D ICI
ICM	IPC, Main	D ICM
ICS	IPC, Secondary (current)	D ICD
IN	Inventor and Address	D IN
IN.CNY	Inventor, Country	D IN.CNY
IPCI	IPC, Initial	D IPCI
IPCR	IPC, Reclassified	D IPCR
LA	Language	D LA
LAF	Language , Filing	D LAF
MCLM (3)	Main Claim	D MCLM
PA	Patent Assignee and Address	D PA
PA.CNY	Patent Assignee, Country	D PA.CNY
PI (PN, PATS) (1)	Patent Information	D PI
PIT	Patent Information Publication Type	D PIT
PNK	Patent Number/Kind Code	D PNK
PRAI PRN) (1)	Priority Information	D PRAI
PRAO (2)	Priority Number Original Format	D PRAO
REN	Referenced Non-Patent Literature	D REN
REP	Referenced Patent Literature	D REP
RLI	Related Application Information	D RLI
SN	System Number (AKZ or Serial No.)	D SN
SOD	Size of Document	D SOD
TI	Title	D TI
UP	Update Date	D UP
ALL (1, 3)	BIB plus IND plus AB plus TX	D ALL
ALLG (1)	ALL, plus image	D ALLG
IALL (1, 3)	ALL, indented with text labels	D IALL
IALLG (1)	IALL, plus image	D IALLG
APPS	AI, PRAI	D APPS
BIB (1, 3)	AB, AG, AI, AN, DT, ED, EW, IN, LA, LAF, PI, PIT, PRAI, REN, REP, RLI, TI	D BIB
IBIB (1, 3)	BIB, indented with text labels	D IBIB
BRIEF (1, 3)	STD, plus AB, MCLM	D BRIEF
BRIEFG (1)	BRIEF, plus image	D BRIEFG
IBRIEF (1, 3)	BRIEF, indented with text labels	D IBRIEF
IBRIEFG (1)	IBRIEF, plus image	D IBRIEFG
FAM (2)	AN, table of patent family information (from the INPADOCDB database)	
CFAM (2)	Condensed family format (from the INPADOCDB database)	D CFAM
IND	PK, ED, EW, ICM, ICS, ICA, ICI, IPCR, IPCI	D IND
IPC	ICM, ICS, ICA, ICI, IPCI, IPCR	D IPC
IPC.TAB	IPC, IPC.KW, IPC.ACD, IPC.VER in tabular format	D IPC.TAB
LS (2)	Legal Status (from the INPADOCDB database)	D LS
LS2 (2)	Legal Status (from the INPADOCDB database), detailed version with display headers	D LS2
MAX (ALL.M) (1)	ALL, for all publication levels	D MAX
MAXG (ALLG.M)	ALLG, for all publication levels	D MAXG
IMAX (IALL.M) (1)	IALL, for all publication levels	D IMAX
IMAXG (IALLG.M)	IALLG, for all publication levels	D IMAXG
RE (2)	Citations of patent and non-patent literature (from INPADOCDB)	D RE
STD (1, 3)	BIB plus IND	D STD
STDG (1)	STD, plus graphic image	D STDG
ISTD (1, 3)	STD, indented with text labels	D ISTD
ISTDG (1)	ISTD, plus graphic image	D ISTDG
TRIAL (TRI, SAM, SAMPLE, FREE)	CLMN, DETN, ED, EW, FA, PGC, SOD, TI (all levels of publication)	D TRIAL
TX	DETD, CLM	D TX
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) By default, patent numbers, application 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.

- (2) Custom display only.  
 (3) You can combine this display field with the qualifier .PK (Patent Kind Code) to display the content for a certain publication level of a record, e.g. D STD.A1.  
 (4) 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).

You can combine all fields except FA with the qualifier .M to SELECT/ANALYZE the content of all publication levels.

Field Name	Field Code	ANALYZE/ SELECT (1)	SORT
Abstract	AB	Y	N
Accession Number	AN	Y	Y
Agent	AG	Y	Y
Application Country	AC	Y	N
Application Date	AD	Y	N
Application Kind Code	AK	Y	Y
Application Number	AP (AI)	Y	N
Application Number Group	APPS	Y (2)	N
Application Year	AY	Y	N
Claims	CLM	Y	Y
Detailed Description	DETD	Y	N
Document Type	DT	Y	Y
Entry Date	ED	Y	Y
Field Availability	FA	Y	N
Graphic Image Size	GIS	Y	N
International Patent Classification	IC	Y (3)	Y
Inventor and Address	IN	Y	N
Inventor, Country	IN.CNY	Y	N
IPC (ICM, ICS, ICA, ICI, IPCI, IPCR)	IPC	Y	Y
IPC, Additional (supplementary)	ICA	Y	N
IPC, Advanced Level Symbols	IPC.A	Y (4)	N
IPC, Advanced Level Symbols for Invention	IPC.AI	Y (4)	N
IPC, Core Level Symbols	IPC.C	Y (4)	N
IPC, Core Level Symbols for Invention	IPC.CI	Y (4)	N
IPC, Index (complementary)	ICI	Y	N
IPC, Initial	IPCI	Y	Y
IPC, Main	ICM	Y	Y
IPC, Reclassified	IPCR	Y	Y
IPC, Secondary	ICS	Y	Y
Language	LA	Y	Y
Main Claim	MCLM	Y	N
Number of Claims	CLMN	Y (5)	N
Number of Detailed Description	DETN	Y (5)	N
Occurrence Count of HIT Terms	OCC	N	Y
Patent Assignee and Address	PA	Y	Y
Patent Assignee, Country	PA.CNY	Y	N
Patent Information Publication Type	PIT	Y	Y
Patent Kind Code	PK	Y	Y
Patent Number	PN (PI)	Y (default)	Y

**SELECT, ANALYZE, and SORT Fields (cont'd)**

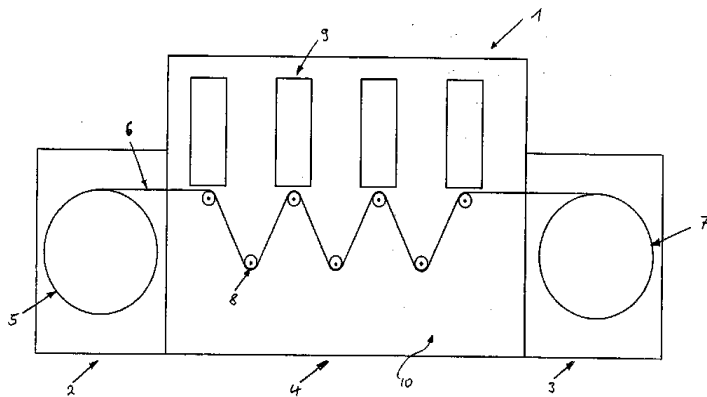
Field Name	Field Code	ANALYZE/ SELECT (1)	SORT
Patent Number/Kind Code	PNK	Y	N
Patent Publication Country	PC	Y	Y
Patent Publication Date	PD	Y	Y
Pre-IPC8 Symbols from the ICM and first IPC8 values from 2006 onwards	IPC.F	Y (4)	N
Priority Country	PRC	Y	Y
Priority Date	PRD	Y	Y
Priority Number	PRN (PRAI)	Y	Y
Priority Year	PRY	Y	Y
Publication Year	PY	Y	Y
Reference Patent Literature	REP	Y	N
Related Application Information	RLI	Y	N
Serial Number	SN	Y	Y
Size of Document	SOD	Y	N
Subclass	SCL	Y (6)	N
Subclass Group	SCG	Y (6)	N
Subclass Group Main	SCGM	Y (7)	N
Subclass Main	SCLM	Y (7)	N
Title	TI	Y	Y
Update Date	UP	Y	Y

- (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.
- (2) Selects or analyzes AP and PRN with /APPS appended.
- (3) Selects or analyzes ICM and ICS with /IC appended.
- (4) Appends IPC to the terms created by SELECT.
- (5) You can combine these display fields with the qualifier .PK (Patent Kind Code) to select the content for a certain publication level of a record. The normal search field code without the .PK extension is appended to selected terms.
- (6) Appends /IC to the terms created by SELECT.
- (7) Appends /ICM to the terms created by SELECT.

## Sample Records

### D BRIEFG

AN DE102008035754 PATDPAFULL ED 20100311 EW 201010  
TI Verfahren und Vorrichtung zum Einstellen einer Position von Fuehrungs-  
und/oder Transportrollen fuer Bedruckstoffe in Druckmaschinen  
IN Neuber, Ingo, 24214 Tuetendorf, DE  
PA Eastman Kodak Co., Rochester, N.Y., US  
AG WAGNER & GEYER Partnerschaft Patent- und Rechtsanwaelte, 80538 Muenchen  
DT Patent  
PIT DEB4 Patentschrift  
PITX DEB4-475 PATENTSCHRIFT, (NORMAL) NEUES RECHT  
PI DE 102008035754 B4 20100311  
AI DE 2008-102008035754 A 20080731  
PRAI DE 2008-102008035754 A 20080731  
IPCI B41F0033-14 [I,A]; B41J0015-00 [I,A]  
B41F0033-14 [I,C\*]; B41J0015-00 [I,C\*]  
AB Es ist sowohl ein Verfahren als auch eine Vorrichtung fuer eine einfache  
Einstellung einer Position von Transportrollen fuer Bedruckstoffe in  
Druckmaschinen vorgesehen. Bei dem Verfahren werden wenigstens ein  
Messgeber an der Fuehrungs- und/oder Transportrolle angebracht, die von  
Daten des wenigstens einen Messgebers in wenigstens drei  
unterschiedlichen Drehpositionen der Fuehrungs- und/oder Transportrolle  
mittels wenigstens einer Erfassungseinheit erfasst und die so erfassten  
Daten mittels einer Auswerteeinheit, zum Ermitteln einer Position der  
Fuehrungs- und/oder Transportrolle auswerten. Anschliessend wird die  
Position der Fuehrungs- und/oder Transportrolle, basierend auf den so  
ausgewerteten Daten eingestellt, um die Fuehrungs- und/oder  
Transportrollen relativ zueinander auszurichten. Die Vorrichtung weist  
einen Messgeber zur loesbaren Befestigung an wenigstens einer der  
Fuehrungs- und/oder Transportrollen, eine Erfassungseinheit zur Erfassung  
des Messgebers, eine Auswerteeinheit, die mit den durch die  
Erfassungseinheit erfassten Daten eine Position wenigstens einer der  
Fuehrungs- und/oder Transportrollen ermittelt, einen Rahmen zur Aufnahme  
der Fuehrungs- und/oder Transportrollen, und eine Stellvorrichtung zum  
Einstellen der Position der Fuehrungs- und/oder Transportrolle bezueglich  
des Rahmens auf.  
  
(00000001.tif, Anhaengende Zeichnung)  
MCLM Verfahren zum Einstellen einer Position wenigstens einer Fuehrungs-  
und/oder Transportrolle fuer Bedruckstoffe in einer Druckmaschine,  
gekennzeichnet durch die folgenden Schritte:  
- Anbringen wenigstens eines Messgebers an der Fuehrungs- und/oder  
Transportrolle,  
- Erfassen von Daten des wenigstens einen Messgebers in wenigstens drei  
unterschiedlichen Drehpositionen der Fuehrungs- und/oder Transportrolle  
mittels wenigstens einer Erfassungseinheit, und wobei die Daten des  
Messgebers optisch durch eine Kamera erfasst werden,  
- Auswerten der erfassten Daten mittels einer Auswerteeinheit, zum  
Ermitteln einer Position der Fuehrungs- und/oder Transportrolle, und  
- Einstellen der Position der Fuehrungs- und/oder Transportrolle,  
basierend auf den so ermittelten Ist-Positionsdaten, um die Fuehrungs-  
und/oder Transportrollen relativ zueinander auszurichten.



**DISPLAY ALL**

AN DE10108809 PATDPAFULL ED 20021107 EW 200236  
TI Vorrichtung zum Verbinden einer Kanuele fuer Herzpumpen mit dem Herz  
IN Goettel, Peter, Dr., 10115 Berlin, DE;  
Kilic, Ali, 10963 Berlin, DE;  
Mueller, Johannes, Dr., 10717 Berlin, DE;  
Nuesser, Peter, Dr., 13051 Berlin, DE;  
Ries, Dietmar, 10247 Berlin, DE;  
Wunderlich, Klaus, 14129 Berlin, DE;  
Peters, Hans-Erhard, Dr., 10437 Berlin, DE  
PA Berlin Heart AG, 12247 Berlin, DE  
AG Anwaltskanzlei Gulde Hengelhaupt Ziebig & Schneider, 10117 Berlin  
DT Patent  
LA German  
PIT DE1 DE-Offenlegungsschrift  
PI DE 10108809 A1 20020905  
AI DE 2001-10108809 A 20010216  
PRAI DE 2001-10108809 20010216  
ICM A61M001-12  
DETD Die Erfindung betrifft eine Vorrichtung zum Verbinden einer Kanuele fuer Herzpumpen mit dem Herz.

Da von einer Herzpumpe ein bestaendiger Sog ausgeht, ist nicht auszuschliessen, dass im Falle einer zu geringen Blutfuellung der Herzkammer Wandstrukturen der Herzwand oder Herzscheidewand die

Einlassoeffnung der Kanuele 2 abdecken.

Der obere Rand der Kanuelenspitze 13, die in die linke Herzkammer hineinragt, ist wellenfoermig geformt und mit tiefen, halbkreisfoermigen Aussparungen versehen.

Durch die Aussparungen wird in diesem Falle eine vollstaendige Okklusion Der Oeffnung verhindert, so dass weiterhin Blut aus dem Ventrikel in die Einlasskanuele fliessen kann.

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. .  
. .  
. .

Die mittlere Schicht (Silikon) hat am inneren Radius eine Lippe, so dass der innere Durchmesser des Nahtrings in der Hoehe der Lippe geringfuegig kleiner ist als der Aussendurchmesser der Einlasskanuelenspitze.

Dies bietet folgenden Vorteil: Ist der Nahtring 1 aufgebracht und befestigt, wird die Spitze 13 der Einlasskanuele durch die Oeffnung des Nahtrings 1 hindurchgeschoben.

Bereits jetzt kommt durch den Kontakt der Silikonlippe 8 mit der Aussenseite der Einlasskanuelenspitze 13 eine Dichtigkeit zustande und es Besteht gleichzeitig die Option, die Einlasskanuele im Nahtring 1 zu verdrehen, bis die optimale Position gefunden ist. Erst dann wird der Nahtring 1 mit dem Nahtflansch 14 durch eine Naht verbunden und fixiert.

Bezugszeichenliste

- 1 Nahtring
- 2 Kanuele
- 3 Hohlorgan, z. B. Herz
- 4 Mittelschicht
- 5 Aussenschicht
- 6 Aussenschicht
- 7 Gewebe
- 8 Lippe
- 9 Naht
- 10 Pumpenanschlussbereich
- 11 Herzverbindungsbereich
- 12 Winkelstueck
- 13 Kanuelenspitze
- 14 Nahtflansch
- 15 -
- 16 -
- 17 -

- CLM 1. Vorrichtung zum Verbinden einer Kanuele fuer Herzpumpen mit dem Herz, dadurch gekennzeichnet, dass eine Kanuelenspitze (13) der Kanuele (2) eine unregelmassige Begrenzung aufweist.
2. Vorrichtung nach Anspruch 1, dadurch gekennzeichnet, dass die Kanuele (2) mit einem am Herzen annaehbaren Nahtring (1) kombiniert ist.
3. Vorrichtung nach Anspruch 1 oder 2, dadurch gekennzeichnet, dass die Kanuele (2) einen Nahtflansch (14) aufweist.
4. Vorrichtung nach einem der Ansprueche 1 bis 3, dadurch gekennzeichnet, dass der Nahtring (1) mit dem Nahtflansch (14) verbindbar ist.
5. Vorrichtung nach einem der Ansprueche 1 bis 4, dadurch gekennzeichnet, dass der Rand der Kanuelenspitze (13) wellental- und wellenbergaehnlich geformt ist.
6. Vorrichtung nach einem der Ansprueche 1 bis 5, dadurch gekennzeichnet, dass die Kanuele (2) mindestens in Teilbereichen aus flexiblen formstabilen Materialien besteht.
7. Vorrichtung nach einem der Ansprueche 1 bis 6, dadurch gekennzeichnet, dass die flexiblen und formstabilen Materialien aus Silikon ggf. mit Gewebe verstaerkt bestehen.

**PATDPAFULL**

8. Vorrichtung nach einem der Anspruech 1 bis 7,  
dadurch gekennzeichnet,  
dass der Nahtring (1) mehrschichtig aufgebaut ist.

**DISPLAY STD.M**

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