

(12) 按照专利合作条约所公布的国际申请

(19) 世界知识产权组织
国际局



(43) 国际公布日
2012年8月30日 (30.08.2012)

WIPO | PCT

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WO 2012/113356 A3

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D21H 23/56 (2006.01) B05D 1/02 (2006.01)
D21H 19/00 (2006.01) A24D 1/00 (2006.01)
- (21) 国际申请号: PCT/CN2012/074417
- (22) 国际申请日: 2012年4月20日 (20.04.2012)
- (25) 申请语言: 中文
- (26) 公布语言: 中文
- (30) 优先权:
201110393663.0 2011年12月2日 (02.12.2011) CN
- (71) 申请人 (对除美国外的所有指定国): 牡丹江恒丰纸业股份有限公司 (MUDANJIANG HENGFENG PAPER CO., LTD) [CN/CN]; 中国黑龙江省牡丹江市阳明区恒丰路11号, Heilongjiang 157013 (CN)。李劲松 (LI, Jinsong) [CN/CN]; 中国黑龙江省牡丹江市阳明区恒丰路11号, Heilongjiang 157013 (CN)。
- (72) 发明人; 及
- (75) 发明人/申请人 (仅对美国): 王启成 (WANG, Qicheng) [CN/CN]; 中国黑龙江省牡丹江市阳明区恒丰路11号, Heilongjiang 157013 (CN)。陈玉香 (CHEN, Yuxiang) [CN/CN]; 中国黑龙江省牡丹江市阳明区恒丰路11号, Heilongjiang 157013 (CN)。梁冰 (LIANG, Bing) [CN/CN]; 中国黑龙江省牡丹江市阳明区恒丰路11号, Heilongjiang 157013 (CN)。
- (74) 代理人: 中国国际贸易促进委员会专利商标事务所 (CCPIT PATENT AND TRADEMARK LAW OFFICE); 中国北京市西城区阜成门外大街2号万通新世界广场8层, Beijing 100037 (CN)。
- (81) 指定国 (除另有指明, 要求每一种可提供的国家保护): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW。
- (84) 指定国 (除另有指明, 要求每一种可提供的地区保护): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA,

[见续页]

(54) Title: MANUFACTURING DEVICE AND PREPARATION METHOD FOR CIGARETTE PAPER HAVING FLAME-RETARDING STRIPES

(54) 发明名称: 一种具有阻燃带的卷烟纸的制造装置及制备方法

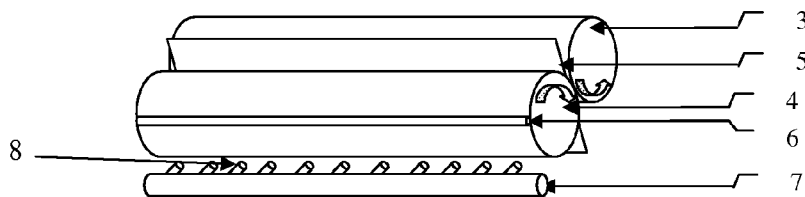


Fig. 2

(57) Abstract: A manufacturing device and preparation method for cigarette paper having flame-retarding stripes. The device comprises a first coating press roll and a second coating press roll, the first coating press roll and the second coating press roll being in contact with and parallel to each other and having opposite axial rotary directions. The cigarette paper passes through at the position where the first coating press roll and the second coating press roll come into contact. A feeding tube is provided at the outside of the first coating press roll and/or the second coating press roll. The feeding tube is provided with multiple feeding nozzles. The method comprises first applying on the surface of the raw paper of the cigarette paper a coating of diffusion-resistant, permeation-resistant coating material such as oxidized starch or sodium carboxymethyl cellulose so as to reduce wrinkles during flame-retarding stripe printing, and then printing flame retardant on one or both sides thereon.

(57) 摘要: 一种具有阻燃带的卷烟纸的制造装置及制备方法。所述装置包括相互平行接触且轴向旋转方向相反的第一涂布压榨辊和第二涂布压榨辊, 所述卷烟纸穿过所述第一涂布压榨辊和第二涂布压榨辊的接触位置, 所述第一涂布压榨辊和/或第二涂布压榨辊的外侧设有上料管, 所述上料管上设有多个上料喷嘴; 所述方法包括首先通过在卷烟纸原纸的表面涂布氧化淀粉或羧甲基纤维素钠等抗扩散、抗渗透涂层材料, 达到在印刷阻燃带时减小褶皱的效果, 然后在其单面或双面印刷阻燃剂。



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RW, SD, SL, SZ, TZ, UG, ZM, ZW), 欧亚 (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), 欧洲 (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)。

- 在修改权利要求的期限届满之前进行，在收到该修改后将重新公布(细则 48.2(h))。
- 根据申请人的请求，在条约第 21 条(2)(a)所规定的期限届满之前进行。

(88) 国际检索报告公布日期: 2012 年 11 月 8 日

本国际公布:

- 包括国际检索报告(条约第 21 条(3))。

INTERNATIONAL SEARCH REPORT

International application No.

PCT/CN2012/074417

A. CLASSIFICATION OF SUBJECT MATTER

See the extra sheet

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC: D21H, B05D, A24D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPODOC, WPI, CNPAT, CNKI: metering rod, scraper, membrane transfer, membrane type, ignition, fire, inflammable, antinflaming, self-extinguishing, extinguish, fire proofing, prolonged fire, permeation, diffusion, ripple, crease, paper?, coat+, siz+, press+, applicat+, nozzle?, jet?, spout?, spray+, roll?, roller?, cigarette?, tobacco?, smok+, cigar+, starch, carboxymethyl cellulose, CMC, shrink, shrinkage, carboxymethylcellulose, curl, curling, cockle, cockling, pucker+, wrinkl+, dimensional stability, barrier, impermeable, print+, gravure

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6203858 B1 (VOITH SULZER PAPIERMASCHINEN GMBH), 20 March 2001 (20.03.2001), description, column 1, lines 7-9, and column 2, line 64 to column 3, line 20, and figure 1	1-4
X	US 6309463 B1 (VOITH SULZER PAPIERTECHNIK PATENT GMBH), 30 October 2001 (30.10.2001), description, column 1, lines 12-15, column 5, lines 8-16, and column 7, lines 7-52, and figure 3	1-4

Further documents are listed in the continuation of Box C.

See patent family annex.

<p>* Special categories of cited documents:</p> <p>“A” document defining the general state of the art which is not considered to be of particular relevance</p> <p>“E” earlier application or patent but published on or after the international filing date</p> <p>“L” document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</p> <p>“O” document referring to an oral disclosure, use, exhibition or other means</p> <p>“P” document published prior to the international filing date but later than the priority date claimed</p>	<p>“T” later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</p> <p>“X” document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</p> <p>“Y” document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art</p> <p>“&” document member of the same patent family</p>
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<p>Date of the actual completion of the international search</p> <p style="text-align: center;">17 August 2012 (17.08.2012)</p>	<p>Date of mailing of the international search report</p> <p style="text-align: center;">13 September 2012 (13.09.2012)</p>
<p>Name and mailing address of the ISA/CN:</p> <p>State Intellectual Property Office of the P. R. China No. 6, Xitucheng Road, Jimenqiao Haidian District, Beijing 100088, China Facsimile No.: (86-10) 62019451</p>	<p>Authorized officer</p> <p style="text-align: center;">XU, Ai'qing</p> <p>Telephone No.: (86-10) 62084939</p>

INTERNATIONAL SEARCH REPORT

International application No.

PCT/CN2012/074417

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

3. Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

Invention 1: claims 1-4, which relate to a manufacturing device for cigarette paper with flame-retardant stripes;

Invention 2: claims 5-9, which relate to a method for preparing cigarette paper with flame-retardant stripes;

The same or corresponding technical feature involved in the above two inventions is: the with flame-retardant stripes; however, "cigarette paper with flame-retardant stripes" is common knowledge in the art, therefore the above inventions do not share a same or corresponding special technical feature that makes a contribution over the art, are not linked technically, and do not belong to a single general inventive concept. Therefore, the present application does not meet the requirement of unity as defined in PCT Rule 13.1.

1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying additional fees, this Authority did not invite payment of additional fees.
3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on protest

- The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
- The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/CN2012/074417**C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5789022 A (VOITH SULZER PAPIERMASCHINEN GMBH), 04 August 1998 (04.08.1998), description, column 4, lines 12-30, and column 5, line 54 to column 6, line 42, and figures 1 and 2	1-4
X	US 2004062877 A1 (STORA ENSO NORTH AMERICA COR), 01 April 2004 (01.04.2004), description, paragraphs 28-31, and figure 1	1-4
X	CN 1680044 A (MITSUBISHI HEAVY INDUSTRIES, LTD.), 12 October 2005 (12.10.2005), embodiment 1, and figure 1	1-4
X	CN 102234957 A (METSU PAPER, INC.), 09 November 2011 (09.11.2011), claims 1-2 and 8, and figure 1	1-4
X	CN 1993521 A (VOITH PAPER PATENT GMBH), 04 July 2007 (04.07.2007), claims 1-2, and figures 1 and 2	1-4
X	CN 101173488 A (FUJI XEROX CO., LTD.), 07 May 2008 (07.05.2008), description, page 8, line 8 to page 17, line 13	5-9
X	CN 101680187 A (UPM-KYMMENE OYJ), 24 March 2010 (24.03.2010), claims 1 and 5, and description, paragraph 27	5-9
X	CN 1305414 A (KIMBERLY-CLARK WORLDWIDE, INC.), 25 July 2001 (25.07.2001), claims 1-4 and 6-8, and description, page 5, line 5, and page 6, lines 18-23	5-9
X	US 6416628 B1 (HATCHER, C.K. et al.), 09 July 2002 (09.07.2002), description, column 3, line 34 to column 4, line 35	5-9
X	JP 2004143612 A (MITSUBISHI PAPER MILLS LTD.), 20 May 2004 (20.05.2004), description, paragraphs 8-47	5-9

INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.

PCT/CN2012/074417

Patent Documents referred in the Report	Publication Date	Patent Family	Publication Date
US 6203858 B1	20.03.2001	WO 9508026 A1	23.03.1995
		EP 0670004 A1	06.09.1995
		JPH 08503417 A	16.04.1996
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		AT 152193 T	15.05.1997
		CA 2149300 A1	23.03.1995
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		EP 1584377 A3	28.05.2008

INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.

PCT/CN2012/074417

Patent Documents referred in the Report	Publication Date	Patent Family	Publication Date
CN 102234957 A	09.11.2011	CN 100377792 C	02.04.2008
		DE 102011017672 A1	03.11.2011
		AT 509802 A2	15.11.2011
		FI 20105468 A	30.10.2011
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		DE 102004036276 A1	16.02.2006
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		US 2008314544 A1	25.12.2008
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		WO 2008132283 A1	06.11.2008
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		EP 2142701 A4	08.06.2011
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INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.

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Patent Documents referred in the Report	Publication Date	Patent Family	Publication Date
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		JP 2010525129 A	22.07.2010
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		WO 9932718 A1	01.07.1999
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		JP 2001527173 A	25.12.2001
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		WO 9932718 A8	16.08.2001
		EP 1042555 A4	08.08.2001
		JP 2004143612 A	20.05.2004

INTERNATIONAL SEARCH REPORT

International application No.

PCT/CN2012/074417

A. CLASSIFICATION OF SUBJECT MATTER

D21H 23/56 (2006.01) i

D21H 19/00 (2006.01) i

B05D 1/02 (2006.01) i

A24D 1/00 (2006.01) n

A. 主题的分类		
参见附加页		
按照国际专利分类(IPC)或者同时按照国家分类和 IPC 两种分类		
B. 检索领域		
检索的最低限度文献(标明分类系统和分类号)		
IPC: D21H,B05D,A24D		
包含在检索领域中的除最低限度文献以外的检索文献		
在国际检索时查阅的电子数据库(数据库的名称, 和使用的检索词(如使用))		
EPODOC,WPI,CNPAT,CNKI:纸,涂,压榨,施胶,辊,喷嘴,喷头,计量棒,刮刀,膜转移,膜式,卷烟,香烟,烟草,引燃,火灾,起火,着火,易燃,阻燃,自灭,自熄,熄灭,点燃,防火,延烧,淀粉,羧甲基纤维素, 渗透,扩散,褶皱,皱褶,起皱,起褶,皱纹,波纹,收缩,尺寸稳定,凹印,凹版,印刷,皱折,折皱,折痕,褶痕,卷曲,paper?, coat+, siz+, press+, applicat+, nozzle?, jet?, spout?, spray+, roll?, roller?, cigarette?, tobacco?, smok+, cigar+, starch, carboxymethyl cellulose, CMC, shrink, shrinkage, carboxymethylcellulose, curl, curling, cockle, cockling, pucker+, wrinkl+, dimensional stability, barrier, impermeable, print+, gravure		
C. 相关文件		
类 型*	引用文件, 必要时, 指明相关段落	相关的权利要求
X	US6203858B1(VOITH SULZER PAPIERMASCHINEN GMBH), 20.3 月 2001(20.03.2001), 说明书第 1 栏第 7-9 行, 第 2 栏第 64 行至第 3 栏第 20 行, 图 1	1-4
X	US6309463B1(VOITH SULZER PAPIERTECHNIK PATENT GMBH), 30.1 0 月 2001(30.10.2001), 说明书第 1 栏第 12-15 行, 第 5 栏第 8-16 行, 第 7 栏第 7-52 行, 图 3	1-4
<input checked="" type="checkbox"/> 其余文件在 C 栏的续页中列出。 <input checked="" type="checkbox"/> 见同族专利附件。		
* 引用文件的具体类型:		“T” 在申请日或优先权日之后公布, 与申请不相抵触, 但为了理解发明之理论或原理的在后文件
“A” 认为不特别相关的表示了现有技术一般状态的文件		“X” 特别相关的文件, 单独考虑该文件, 认定要求保护的发明不是新颖的或不具有创造性
“E” 在国际申请日的当天或之后公布的在先申请或专利		“Y” 特别相关的文件, 当该文件与另一篇或者多篇该类文件结合并且这种结合对于本领域技术人员为显而易见时, 要求保护的发明不具有创造性
“L” 可能对优先权要求构成怀疑的文件, 或为确定另一篇引用文件的公布日而引用的或者因其他特殊理由而引用的文件(如具体说明的)		“&” 同族专利的文件
“O” 涉及口头公开、使用、展览或其他方式公开的文件		
“P” 公布日先于国际申请日但迟于所要求的优先权日的文件		
国际检索实际完成的日期 17.8 月 2012(17.08.2012)		国际检索报告邮寄日期 13.9 月 2012 (13.09.2012)
ISA/CN 的名称和邮寄地址: 中华人民共和国国家知识产权局 中国北京市海淀区蓟门桥西土城路 6 号 100088 传真号: (86-10)62019451		授权官员 徐艾清 电话号码: (86-10) 62084939

C(续). 相关文件		
类 型	引用文件, 必要时, 指明相关段落	相关的权利要求
X	US5789022A(VOITH SULZER PAPIERMASCHINEN GMBH), 04.8 月 1998(04.08.1998), 说明书第 4 栏第 12-30 行, 第 5 栏第 54 行至第 6 栏第 42 行, 图 1,2	1-4
X	US2004062877A1(STORA ENSO NORTH AMERICA COR), 01.4 月 2004(01.04.2004), 说明书 28-31 段, 图 1	1-4
X	CN1680044A(三菱重工业株式会社), 12.10 月 2005(12.10.2005), 实施例 1, 图 1	1-4
X	CN102234957A(美卓造纸机械公司), 09.11 月 2011(09.11.2011), 权利要求 1-2,8, 图 1	1-4
X	CN1993521A(沃依特专利有限责任公司), 04.7 月 2007(04.07.2007), 权利要求 1-2, 图 1,2	1-4
X	CN101173488A(富士施乐株式会社), 07.5 月 2008(07.05.2008), 说明书第 8 页第 8 行至第 17 页第 13 行	5-9
X	CN101680187A(芬欧汇川公司), 24.3 月 2010(24.03.2010), 权利要求 1,5, 说明书第 27 段	5-9
X	CN1305414A(金伯利-克拉克环球有限公司), 25.7 月 2001(25.07.2001), 权利要求 1-4,6-8, 说明书第 5 页第 5 行, 第 6 页第 18-23 行	5-9
X	US6416628B1(HATCHER C K 等), 09.7 月 2002(09.07.2002), 说明书第 3 栏第 34 行至第 4 栏第 35 行	5-9
X	JP2004143612A(MITSUBISHI PAPER MILLS LTD), 20.5 月 2004(20.05.2004), 说明书 8-47 段	5-9

第II栏 某些权利要求被认为是不能检索的意见(续第1页第2项)

根据条约第17条(2)(a)，对某些权利要求未做国际检索报告的理由如下：

1. 权利要求：
因为它们涉及不要求本单位进行检索的主题，即：

2. 权利要求：
因为它们涉及国际申请中不符合规定的要求的部分，以致不能进行任何有意义的国际检索，具体地说：

3. 权利要求：
因为它们是从属权利要求，并且没有按照细则6.4(a)第2句和第3句的要求撰写。

第III栏 缺乏发明单一性的意见(续第1页第3项)

本国际检索单位在该国际申请中发现多项发明，即：

发明1：权利要求1-4，涉及一种具有阻燃带的卷烟纸的制造装置；

发明2：权利要求5-9，涉及一种制备具有阻燃带卷烟纸的方法；

上述两项发明的相同或相应的技术特征为：具有阻燃带的卷烟纸；然而，“具有阻燃带的卷烟纸”为本领域所公知，所以上述两项发明不具有相同或相应的体现发明对现有技术作出贡献的特定技术特征，不存在技术关联，不属于一个总的发明构思，因而不满足发明单一性的要求，不符合PCT细则13.1的规定。

1. 由于申请人按时缴纳了被要求缴纳的全部附加检索费，本国际检索报告涉及全部可作检索的权利要求。
2. 由于无需付出有理由要求附加费的劳动即能对全部可检索的权利要求进行检索，本单位未通知缴纳任何附加费。
3. 由于申请人仅按时缴纳了部分被要求缴纳的附加检索费，本国际检索报告仅涉及已缴费的那些权利要求。具体地说，是权利要求：
4. 申请人未按时缴纳被要求缴纳的附加检索费。因此，本国际检索报告仅涉及权利要求书中首先提及的发明；包含该发明的权利要求是：

关于异议的说明： 申请人缴纳了附加检索费，同时提交了异议书，适用时，缴纳了异议费。
 申请人缴纳了附加检索费，同时提交了异议书，但未在通知书规定的时间期限内缴纳异议费。
 缴纳附加检索费时未提交异议书。

国际检索报告
关于同族专利的信息

国际申请号
PCT/CN2012/074417

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国际检索报告
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国际检索报告
关于同族专利的信息

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检索报告中引用的 专利文件	公布日期	同族专利	公布日期
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A. 主题的分类

D21H 23/56(2006.01)i

D21H 19/00(2006.01)i

B05D 1/02(2006.01)i

A24D 1/00(2006.01)n