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Note from the Editors

These are trying times for many industries. The current global financial crisis has demonstrated the interdependence of the world's major economic players. In particular, the ability of China and United States to weather the current recession will have a significant impact on the entire world economy. As a global law firm with a major presence in China, Morrison & Foerster LLP is well positioned to provide information and counsel to Chinese companies operating internationally. We believe now it is more important than ever for Chinese companies to develop and protect their intellectual property as they develop technologies and compete at home and abroad.

Therefore, with this inaugural issue, we introduce our *China Intellectual Property Quarterly Newsletter*. With this and future editions, we hope to share with you trends and important court decisions that impact on companies like yours that have valuable IP. We hope that you will find it helpful information as you guide your own company's legal strategies.

We then discuss the impact of *Bilski* on software patents, including some new strategies in prosecuting software patents. We also discuss the impact of Bilski on biotech / life science patents, particularly on patenting diagnostic methods.

We are also happy to report two recent victories secured by Morrison & Foerster LLP before the ITC, and that Morrison & Foerster has strengthened its China litigation and IP practice by relocating two seasoned IP attorneys, Mike Vella (<u>mvella@mofo.com</u>) and Harris Gao (<u>hgao@mofo.com</u>), to the Shanghai Office.

We hope you find Morrison & Foerster's China IP Quarterly Newsletter informative, and we will continue to monitor the latest developments to keep you updated.

Best wishes for a wonderful Lunar New Year,

Morrison & Foerster LLP China Litigation and Intellectual Property Departments

编者按

2008年全球金融危机表明,要想持续性地发展经济,中国必须改革其现行的经济结构。尤其值得一提的是,中国开始丧失其传统性的竞争优势,仅靠低成本的制造和出口业已不再可行。我们认为,对于中国公司而言,当前没有比开发技术上的竞争优势更为重要的了。中国公司必须集中资源开发对其未来发展至关重要的关键技术。

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在本期通讯中,我们首先将讨论美国联邦巡回上诉法院在Bilkki一案中所做的重要判决。该判决对方法的专利适格性新设定了一项更为严格的标准:"机器或转变"。

随后我们讨论Bilski一案对软件专利的影响,包括软件专利申请过程中的一些新策略。我们还讨论了 Bilski一案对生物技术/生命科学专利的影响,尤其是对诊断方法专利申请的影响。

同时,我们很高兴地就以下事项进行汇报:美富律师事务所最近在美国国际贸易委员会取得两次胜诉;另外,为加强中国诉讼及知识产权业务,美富向其上海办事处派遣了两名经验丰富的知识产权律师,即魏迈克 (<u>mvella@mofo.com</u>)和高焕勇 (<u>hgao@mofo.com</u>)。

我们希望美富律师事务所的中国知识产权季度通讯能为您提供有用信息。 我们将继续追踪知识产权领域的最新发展,为您提供最新资讯。

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In re Bilski: The Federal Circuit Defines New Rules for Patenting Business Methods

By Alex Chartove and Greg Reilly

INTRODUCTION

On Oct. 29, 2008, the Federal Circuit issued its long-awaited decision on the patent-eligibility of business methods under Section 101 of the Patent Act. In In re Bilski, 545 F.3d 943 (Fed. Cir. 2008), the en banc court held that any process, including a business method, is eligible for patent protection only if it is tied to a particular machine or apparatus or transforms a particular article into a different state or thing. In doing so, the court modified its decision in State Street Bank & Trust Co. v. Signature Financial Group, 149 F.3d 1368 (Fed. Cir. 1998), which suggested that any process that produced a useful, concrete, and tangible result was potentially patent-eligible. At the same time, the Federal Circuit refused to impose per se exclusions to patent-eligibility for business methods, software, nontechnological processes, or other subject matter categories.

The court's *en banc* opinion in *Bilski* will have a significant impact on the ability to obtain patents, as well as to defend against a charge of patent infringement, in a wide variety of fields, from financial transactions to computer software to medical

diagnostics. At the same time, the Federal Circuit provided relatively little guidance on how the newly defined "machine-or-transformation test" should be applied in practice, and explicitly declined to decide the important question of the patenteligibility of computer-implemented processes. As a result, the impact of *Bilski* will depend in large measure on how later decisions apply this new "machine-or-transformation" test and, of course, whether the Supreme Court grants *certiorari*.

BACKGROUND

In recent years, the USPTO and the Federal Circuit have struggled with the proper standard for patenteligibility of so-called "business method" inventions. Section 101 of the Patent Statute, 35 U.S.C. § 101, classifies "any new and useful process, machine, manufacture, or composition of matter" as patent-eligible subject matter. Despite this broad language, courts for much of the 20th century applied a "business method exception" to exclude any process applied in the realm of "business" from the reaches of Section 101.

The rise of the "Information Age," and the vast computer-implemented

processes that it generated, forced courts to reconsider this per se exclusion to Section 101. In its 1998 State Street decision, the Federal Circuit laid the "ill-conceived [business method] exception to rest," holding business method inventions subject to the same requirements of patentability as any other method inventions. 149 F.3d at 1375. State Street, along with the subsequent decision in AT&T Corp. v. Excel Communications, Inc., 172 F.3d 1352 (Fed. Cir. 1999), suggested that a process, including a business method, satisfied Section 101 as long as it produced a "useful, concrete, and tangible result." State Street, 149 F.3d at 1375.

The *State Street* decision resulted in a flood of patents and patent applications in fields long thought beyond the reach of patent protection, creating a backlash against *State Street*'s broad standard for patent-eligibility. Last fall, the Federal Circuit appeared to constrain *State Street*, holding in *In re Comiskey*, 499 F.3d 1365 (Fed. Cir. 2007), that "the statute does not allow patents to be issued on particular business systems," such as the system of arbitration claimed by Comiskey, "that depend entirely on the use

Bilski案: 联邦巡回上诉法院确定了新的商业 方法专利授予规则

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前言

2008年10月29日, 联邦巡回上 诉法院发布了令人期待已久的 Bilski一案的判决书。该案就"商 业方法"在《专利法》第101条 下的专利适格性做出裁定。在该 案中,全院合议庭庭审认为, 只要是与特定机器或设备搭配 的方法,或可将某特定物品转 变成其它状态或物体的方法, 包括"商业方法",均有资格获 得专利保护(《联邦判例汇编》 第三辑第545卷第943页) (联邦 巡回上诉法院2008年)。在此 过程中,法院修改了其在"道 富银行和信托公司对签记金融 集团案"(《联邦判例汇编》 第三辑第149卷第1368页) (联 邦巡回上诉法院2008年)中确 立的案例法。道富银行一案提 出任何能产生有用、具体且有 形结果的方法均具有专利适格 性。同时,联邦巡回上诉法院 拒绝对商业方法、软件、非技 术性方法或其它类似的标的物 做出一概不可获得专利保护的 硬性规定。

从金融交易、计算机软件到医 学诊断,在Bilski案中法院全 院庭审的意见将显著影响有关 当事人在很多领域内取得专利 的能力和对抗专利侵权指控的 能力。同时,对于在实践中应 如何运用新确定的"机器或转 变"检验标准,联邦巡回上诉 法院相对而言几乎未提供任何 指导,还明确拒绝对用计算机 实施的方法是否具有专利适格 性这一重要问题做出决定。因 此,Bilski案的影响在很大程度 上将取决于以后的判决会如何 运用该项新的"机器或转变"检验 标准。当然,这还取决于最高 法院是否批准当事人的再次复 审申请。

背景

对于所谓"商业方法"发明专利适 格性的适当标准问题,美国专 利商标局和联邦巡回上诉法院 近年来一直在苦苦思考。《美 国法典》第35篇第101条,即 《专利法》第101条将"无论任 何新型、有用的方法、机器、 产品或物质成分"均归类为具 有专利适格性的标的物。尽管 以上规定比较宽松,在20世纪 多数时间里,法院一直采用"商 业方法除外"的特例,将"商业" 领域内的所有方法排除在第101 条规定的适用范围之外。 "知识时代"的到来及随之产生的 大量用计算机实施的方法迫使法 院重新考虑对第101条采用的上 述一概硬性除外做法。在1998年 对道富银行案做出的判决中, 联邦巡回上诉法院摒弃了"考 虑欠周密的[商业方法]除外"做 法,认为商业方法发明应和任 何其它方法发明一样,应遵照 相同的可专利性要求。(《联 邦判例汇编》第三辑第149卷第 1375页。) 道富银行案以及后来 对"美国电话电报公司对Excel通 讯公司 (Excel Communications, Inc.) 案"(《联邦判例汇编》第三辑 第172卷第1352页) (联邦巡回 上诉法院1999年)做出的判决认 为,只要某种方法(包括商业 方法)可产生"有用、具体并且 有形的结果",则该方法即符合 第101条的要求。(《联邦判例 汇编》第三辑第149卷第1375页 道富银行案。)

对道富银行案的判决致使长期 以来一直认为属于专利保护范 围之外的各个领域涌现出了大 量专利和专利申请,同时也招 致了对该判决采用的宽松专利 适格性标准的激烈反对。去年 秋天,联邦巡回上诉法院似乎 对道富银行案的影响进行了限 of mental processes." *Id.* at 1378. Instead, it held that a process must be tied to a machine or create or involve a composition of matter or manufacture to satisfy Section 101.

On October 1, 2007, ten days after *Comiskey* issued, a Federal Circuit panel heard oral argument in *Bilski*. Bilski claimed a method for hedging risk in the field of commodities trading by entering into contracts to purchase and sell commodities at fixed prices. Bilski admitted that his broadest claim did not require a computer or other specific apparatus, and the USPTO rejected his patent for failure to claim patent-eligible subject matter under Section 101.

In February 2008, before the Federal Circuit panel issued an opinion, the court took the unusual step of *sua sponte* ordering the case reheard *en banc*. The *en banc* briefing and oral argument, which occurred in May 2008, addressed five overlapping questions:

- Whether the broadest claim of Bilski's patent application claimed patent-eligible subject matter under 35 U.S.C. § 101?
- 2. What standard should govern in determining whether a process is patent-eligible subject matter under Section 101?
- 3. Whether the claimed subject matter is not patent-eligible because it constitutes an abstract idea or

mental process; when does a claim that contains both mental and physical steps create patent-eligible subject matter?

- 4. Whether a method or process must result in a physical transformation of an article or be tied to a machine to be patent-eligible subject matter under Section 101?
- 5. Whether it is appropriate to reconsider State Street Bank & Trust Co. v. Signature Financial Group, Inc., 149 F.3d 1368 (Fed. Cir. 1998), and AT&T Corp. v. Excel Communications, Inc., 172 F.3d 1352 (Fed. Cir. 1999), in this case and, if so, whether those cases should be overruled in any respect?

THE EN BANC DECISION IN BILSKI

Writing for the *en banc* court, and joined by Judges Lourie, Schall, Bryson, Gajarsa, Linn, Dyk, Prost, and Moore, Chief Judge Michel's opinion focused on the second of the *en banc* questions—the proper standard for determining whether a process is patent-eligible subject matter under Section 101.

A Process Is Patent-Eligible Subject Matter If It Is Tied to a Particular Machine or Transforms a Particular Article into a Different State or Thing

The Federal Circuit began by noting that the Supreme Court has narrowed the term "process" in Section 101 by excluding laws of nature, natural phenomena, and abstract ideas from patent-eligibility. These "fundamental principles," as the Federal Circuit called them, are part of the "storehouse of knowledge" to which no person can claim an exclusive right. 545 F.3d at 950. As a result, process claims that pre-empt substantially all uses of a fundamental principle are not patent-eligible, but process claims that only foreclose particular applications of these fundamental principles are patent-eligible under Section 101.

In perhaps its clearest statement, the Federal Circuit held:

The Supreme Court, however, has enunciated a definitive test to determine whether a process claim is tailored narrowly enough to encompass only a particular application of a fundamental principle rather than to pre-empt the principle itself. A claimed process is surely patent-eligible under § 101 if: (1) it is tied to a particular machine or apparatus, <u>or</u> (2) it transforms a particular article into a different state or thing.

545 F.3d 954. The Federal Circuit rejected qualifying language in earlier Supreme Court decisions, which Judge Newman relied on in dissent, that would leave the door open for patent-eligibility for some processes that did not meet this test. Instead, the court, relying on the absence of such qualifiers in later Supreme Court opinions, held that the "machine-or制,它在*Comiskey*案(《联邦判 例汇编》第三辑第499卷第1365 页)(联邦巡回上诉法院2007 年)中认为,"法律不允许对完 全依靠在大脑中进行的方法, 包括这样的特定商业系统"(如 Comiskey主张的仲裁系统)"授 予专利"。(同上第1378页)。 鉴此,联邦巡回上诉法院认为, 某种方法必须是在与某种机器 搭配或可产生或包含某种物质或 产品成分的情况下,才算符合第 101条。

2007年10月1日,即在对 Comiskey案做出判决10天后,联 邦巡回上诉法院合议庭听取了对 *Bilski*案的口头辩论。对通过按 固定价格签署商品买卖合同,从 而防范商品交易领域内存在的风 险的方法,*Bilski*提出了专利主 张。*Bilski*承认,其最大的专利 主张范围并不依赖于计算机或其 它专门设备。美国专利商标局以 *Bilski*提出的标的物不具有第101 条规定的专利适格性为由,拒绝 了其专利申请。

2008年2月,在联邦巡回上诉 法院合议庭发布判决意见书之 前,法院异乎寻常地主动责令 通过全院庭审对该案进行复 审。2008年5月进行的全员庭审 辩护和口头辩论讨论了五个相 互重叠的问题:

1. Bilski专利申请的最大专利主 张范围所主张的对象是否是 《美国法典》第35篇第101条项 下具有专利适格性的标的物?

- 2. 在确定某种方法是否是第101 条项下具有专利适格性的标的 物时,应适用什么标准?
- 所主张的标的物是否会因其 构成某种抽象概念或大脑思维 方法而不具有专利适格性,以 及既包含脑力又包含有形步骤 的专利主张何时会产生具有专 利适格性的标的物?
- 一种方式或方法是否必须在 可导致物品发生有形转变或与 某种机器搭配的情况下,才可 成为第101条项下具有专利适 格性的标的物?
- 5. 在本案中重新审议"道富银行 和信托公司对签记金融集团 案"(《联邦判例汇编》第三 辑第149卷第1368页)(联邦 巡回上诉法院1998年)和"美 国电话电报公司对Exced通讯 公司(Excel Communications, Inc.) 案"(《联邦判例汇编》第三 辑第172卷第1352页)(联邦 巡回上诉法院1999年)所确立 的案例法是否适当,以及如 果重新审议的话,这些案件 确立的案例法是否会在任何 方面被推翻?

全院庭审对Bilski案的判决

全员庭审法院审判长Michel连同 Lourie、Schall、Bryson、Gajarsa、 Linn、Dyk、Prost和Moore法官起 草的法院判决意见书主要关注的 是全员庭审的第二个问题——即 在确定某种方法是否是第101条 项下具有专利适格性的标的物时 应采用的适当标准。

如果某种方法是与某特定机器搭 配的,或可将某特定物品转变成 不同形态或物体,则该方法即系 具有专利适格性的标的物。

联邦巡回上诉法院首先指出, 通过将自然规律、自然现象和 抽象概念排除在具有专利适格 性的标的物之外,最高法院缩 小了第101条中"方法"一词 的范围。联邦巡回上诉法院所 称的"基本原理"是任何人不 得主张专有权的"知识库"的 一部分。(《联邦判例汇编》 第三辑第545卷第950页。)因 此,实际会涵盖某项基本原理 全部用途的方法类专利主张不 具有专利适格性,但仅对这些 基本原则某些特定应用的方法 类专利主张在第101条项下具有 法律适格性。

在其做出的或许是最为明确的 声明中,联邦巡回上诉法院认 为:

不过,为确定所制定的方法类 专利主张范围是否仅限于包含 对某基本原理的特定应用而非 涵盖该项原理本身,最高法院 已阐明了明确的检验标准。在 下列情况下,所主张的方法肯 transformation test" was the sole test for determining patent-eligibility of a process under Section 101, at least until the Supreme Court "decide[s] to alter or perhaps even set aside this test to accommodate emerging technologies." *Id.* at 955.

In limiting patent-eligibility to processes that satisfy the "machineor-transformation test," the Federal Circuit overruled or rejected several other tests. Most importantly, the Federal Circuit held that the "useful, concrete, and tangible result" test, first identified in In re Alappat, 33 F.3d 1526 (Fed. Cir. 1994) and most closely associated with State Street, did not adequately restrict the patenteligibility for processes under Section 101, even if the test was helpful in indicating whether a claim was drawn to a fundamental principle or practical application of such a principle.

Similarly, the Federal Circuit rejected restricting patent-eligibility to processes involving physical elements or steps, as was done by the Court of Customs and Patent Appeals and as *Comiskey* could be read to support. The court held that the proper question was whether the process satisfied the "machine-or-transformation test" regardless of whether or not it involved "physical steps."

Finally, the Federal Circuit rejected various categorical restrictions on patent-eligibility for processes. The court refused to adopt the position advocated by Judge Mayer in dissent that would limit patent eligibility to processes representing "technology" or the "technological arts," concluding that these terms were too ambiguous and ever-changing. 545 F.3d at 966. (Mayer, J., dissenting). Similarly, the court refused to adopt *per se* rules advocated by various *amici* that would exclude software, business methods, and other categories of processes from patent-eligibility.

The Scope and Application of the Machine-or-Transformation Test Remains Unclear

The *Bilski* decision clarifies the patenteligibility of processes under Section 101 by adopting a single test and explicitly rejecting a variety of other tests. However, as Judge Rader noted in dissent, it also raises many questions about how this test should be applied in practice.

The opinion makes clear that a process that is tied to a machine or that transforms an article into a different state or thing is patent-eligible under Section 101. However, the court proceeded to further limit patenteligibility by noting that "the use of a specific machine or transformation of an article must impose meaningful limits on the claim's scope" and "must not merely be insignificant extra-solution activity." 545 F.3d at 969. The court failed to explain what it meant by imposing "meaningful limits" or "insignificant extra-solution activity." Similarly, the court held that a process invention is not made patenteligible merely by limiting the process to a certain field of use, such as Bilski's limitation to commodities hedging.

Moreover, because Bilski admitted that his claim did not require any specific machine or apparatus, the court left "to future cases the elaboration of the precise contours of machine implementation," including "whether or when recitation of a computer suffices to tie a process claim to a particular machine." *Id.* This open question is particularly significant, since most "business methods" of any value are computer-implemented.

Even though the court provided extensive comment on the "transformation" prong of the "machine-or-transformation test," its discussion still left many open questions. The court first noted that the "transformation must be central to the purpose of the claimed process," though it did not explain what it meant to be "central" to the process. Id. The court also held that processes that transform physical objects or substances, as well as electronic data that represent physical and tangible objects, are patenteligible. By contrast, the court held that processes that transform "abstract constructs such as legal obligations, organizational relationships, and business risks" are not patent定具有第101条项下的专利适格 性:(1)该方法是与某特定机 器或设备搭配的,或(2)该方 法可将某特定物品转变为其它 形态或物体。

(《联邦判例汇编》第三辑第 545卷第954页。) 联邦巡回上 诉法院否定了最高法院在早些 时候做出的判决中使用的限制 性用语。这些用语会使某些不 符合该检验标准的方法具有专 利适格性, 而Newman法官正是 根据此类用语提出异议的。鉴 于最高法院后来做出的判决意 见书中没有该等限定条件,联 邦巡回上述法院认为,至少在 最高法院"为适应新兴技术而 决定修改或甚至可能取消该检 验标准"之前,"机器或转变 检验标准"是确定某方法在第 101条项下是否具有专利适格性 的唯一检验标准。(同上第955 页。)

在将专利适格性限于满足"机 器或转变检验标准"的方法过 程中,联邦巡回上诉法院驳回 或否定了若干其它检验标准。 最重要的是,联邦巡回上诉法 院认为,要求"有用、具体且 有形的结果"的检验标准未充 分限制第101条项下方法的专 利适格性,即使该检验标准有 助于说明某专利主张涉及的是 某项基本原则还是该项原则的 实际应用。上述检验标准是在 Alappat案(《联邦判例汇编》 第三辑第33卷第1526页)(联 邦巡回上诉法院1994年)中首次 确定的,并且与道富银行案最 为接近。

同样,联邦巡回上诉法院拒绝 将专利适格性限于包含有形成 分或步骤的做法。关税和专利 上诉法院就是这样限制的,并 且可将Comiskey案理解为支持 这种做法。法院认为,正确的 问题应该是方法是否符合"机 器或转变检验标准",无论其 是否包含"有形步骤"。

最后,联邦巡回上诉法院否定 了对各种方法专利适格性的各 种明确限制。Mayer法官在提出 异议时主张将专利适格性限于 代表"技术"或"科技"的方 法,但法院拒绝采纳Mayer法官 的立场,断定这些用词太过模 糊且变幻不定。(《联邦判例汇 编》第三辑第545卷第966页。) (Mayer法官提出的异议)。同 样,法院拒绝采用各法官顾问 主张的不允许软件、商业方法 以及其它各类方法具有专利适 格性的硬性排除规则。

"机器或转变检验标准"的范围及其应用仍不明确。

通过采用单一检验标准并明确 拒绝各种其它检验标准,对 *Bilski*案的判决阐明了第101条 项下方法的专利适格性。不 过,Rader法官在提出异议时指 出,对于在实践中如何应用该 检验标准,该项判决也引起了 许多问题。

法院的判决意见书表明,与某 机器搭配或可将某项物品转变 为其它形态或其它物体的方法 在第101条项下具有法律适格 性。但是,通过指出"对某特 定机器的使用或对某项物品的 转变必须对专利主张的范围施 加有意义的限制",并且"不 得仅为无关紧要的, 与解决困 难无关的额外活动",法院进 而对专利适格性做了进一步限 制。(《联邦判例汇编》第三 辑第545卷第969页。)法院没 有解释其提出的"有意义的限 制"或"无关紧要的,与解决 困难无关的额外活动"究竟是 什么意思。同样,法院认为, 仅通过将方法限于某特定使用 领域(如Bilski将其方法限于商 品套期保值)并不会使该方法 发明具有专利适格性。

另外,因为Bilski承认其专利 主张不需要任何具体机器或设 备,法院将"机器实施的精确 范围"留待"在以后案件中 详加说明",包括"对计算机 的叙述是否以及如何足以满足 将对某项方法的专利主张与某 特定机器搭配的要求"。(同 上。)这个尚待解决的问题尤 为重要,因为多数无论具有任 何价值的"商业方法"均是通 过计算机实施的。 eligible. 545 F.3d at 970. The court did not address where the line fell between these two categories of transformations.

The court concluded that Bilski's process only involved "ineligible transformations," such as the transformation of legal obligations. Since the process did not result in "the transformation of any physical object or substance, or an electronic signal representative of any physical object or substance," it was not patent-eligible under Section 101. 545 F.3d at 973.

THE IMPACT OF BILSKI

Bilski clearly restricts the patenteligibility of processes generally, and business methods in particular. The decision rejects the post-State Street view that *any* useful series of steps could, potentially, be eligible for patent protection. As a result, it will now be more difficult to obtain patents protecting "pure" business methods that are unassociated with any specific implementation mechanism, such as Comiskey's method of arbitration or Bilski's method of hedging risk in commodities transactions. Following Bilski, such methods are ineligible for patent protection because they are not tied to a *particular* machine and merely transform "abstract constructs such as legal obligations, organizational relationships, and business risks," rather than physical objects or data

representing physical objects. 545 F.3d at 970.

The dissents suggest that all "information-based and computermanaged processes" (Judge Newman) and "software" (Judge Rader) are now ineligible for patent protection under the majority's "machine-ortransformation test." See slip op. (Newman, J., dissenting) at 30; slip op. (Rader, J., dissenting), at 9-10. The Bilski majority, however, expressly declined to comment on the patent-eligibility of business method inventions that are explicitly required to be computer-implemented. Consequently, the impact of Bilski on the vast field of computerimplemented processes must await later Federal Circuit decisions applying the requirements that the process must be "tied" to a "particular" machine and that the machine must "impose meaningful limits on the claim's scope" rather than "merely be insignificant extra-solution activity." 545 F.3d at 969.

The court noted repeatedly that the Bilski decision is directed to process claims, distinguishing these from both the machine claims at issue in State Street and the manufacture claims at issue in In re Nuijten, 500 F.3d 1346 (Fed. Cir. 2007). Consequently, the impact of Bilski on the patenteligibility of a particular invention will depend in large measure on how that invention is claimed. For example, The decision rejects the post-*State Street* view that *any* useful series of steps could, potentially, be eligible for patent protection.

if a business method invention can be claimed as a "system" or "device" rather than as a "process" or "method," some of the more significant consequences of *Bilski* may be reduced or avoided with respect to the nonprocess claims.

Finally, the Supreme Court may still weigh in on this subject by granting certiorari. Perhaps cognizant of this possibility and the Court's recent string of reversals in patent cases, the Federal Circuit emphasized Supreme Court precedent even at the cost of eschewing its own precedent, as it also did in its last en banc decision in In re Seagate Technology, LLC, 497 F.3d 1360 (Fed. Cir. 2007). At the same time, the Federal Circuit in Bilski appeared to almost invite Supreme Court review, noting that "the Supreme Court may ultimately decide to alter or perhaps even set aside this test to accommodate emerging technologies." 545 F.3d at 960.

即使法院就"机器或转变检验 标准"的"转变"方面提供了 大量意见,其讨论结果仍留下 了许多尚待解决的问题。法院 首先指出,"对于所主张的方 法而言,转变必须是该方法之 目的的根本",但其并未解释 方法的"根本"究竟指什么。

(同上。)法院还认为,可转 变有形物体或物质的方法以及 代表有形物体的电子数据具有 专利适格性。反之,法院认为 用于转变"法律义务、组织关 系和商业风险等抽象概念"的 方法不具有专利适格性。

(《联邦判例汇编》第三辑第 545卷第970页。)法院没有说明 两类转变之间的明确界限。

法院的结论认为,Bilski的方法 仅包含"无适格性的转变", 如对法律义务的转变。因为该 方法没有导致"任何有形物体 或物质的转变,或代表任何有 形物体或物质的电子信号", 所以该方法在第101条项下不具 有专利适格性。

Bilski案的影响

Bidki案明确限制了一般方法,特 别是商业方法的专利适格性。判 决否定了在道夫银行案后形成的 认为任何一系列有用的步骤均 可能有资格获得专利保护的观 点。因此,现在将更加难以对与 任何特定实施机制均无关的"纯" 商业方法取得专利保护,例如 Comiskey的仲裁方法或Bibke的商 品交易风险防范方法。在Bibkei案 之后,此类方法无资格取得专利 保护,因为它们并非是与某"特 定"机器搭配的,只是用于转变 "法律义务、组织关系和商业风险 等抽象概念",而不是有形物体或 代表有形物体的数据。(《联邦 判例汇编》第三辑第545卷第970 页。)

少数法官的不同意见认为, 按照或多数法官支持的"机器 或转变检验标准",所有"基 于信息并用计算机管理的方 法"(Newman法官)和"软件" (Rader法官)现在均无资格获 得专利保护。参见判决意见书 单行本(Newman法官提出的异 议)第30页,以及判决意见书单 行本(Rader法官提出的异议) 第9-10页。不过,参加Bilski案审 理的多数法官明确拒绝对显然 需要利用电脑实施的商业方法 发明的可专利性发表意见。因 此,在广大的用计算机实施的 方法领域, Bilski案的影响必须 等以后联邦巡回上诉法院运用 下列要求做出判决之后才能确 定:即方法必须与"特定"机器 "搭配",同时该机器必须"对专 利主张的范围施加有意义的限 制",而非"仅是无关紧要的额外 活动"。(《联邦判例汇编》第 三辑第545卷第969页。)

法院反复指出对Bilski案的判决针对的是"方法"类专利主

张,以此将此类专利主张与道 富银行案涉及的"机器"类专 利主张以及Nuiiten案(《联邦 判例汇编》第500卷第1346页) (联邦巡回上诉法院2007年) 涉及的"产品"类专利主张区 别开来。因此, Bilski案对特定 发明专利适格性的影响将在很 大程度上取决于如何对该项发 明提出专利主张。例如,如果 可将某种商业方法发明作为 "系统"或"设备"而非"方 法"或"方式"提出专利主 张,则可以减少或避免Bilski案 某些对非方法类专利主张更为 严重的后果。

最后,最高法院可能还要通过签 发再次复审令对这个再加以斟 酌。可能认识到这个可能性以及 最高法院最近采取的一系列撤判 行为,联邦巡回上诉法院仍强 调了最高法院的判例,即使以避 开其自己的判例为代价。在对希 捷科技公司案(《联邦判例汇 编》第三辑第497卷第1360页)

(联邦巡回上诉法院2007年)的 最终全院庭审判决中,联邦巡回 上诉法院也是这样做的。同时, 在*Bilkei*案中,联邦巡回上诉法 院显得几乎是在邀请最高法院进 行再次复审,指出"最高法院可 能会为适应新兴技术而最终决定 修改或可能甚至取消该检验标 准。" (《联邦判例汇编》第 三辑第545卷第960页。)■

The Impact of *In re Bilski* on Software Patents

By Harris Gao

INTRODUCTION

In *In re Bilski*, 545 F.3d 943 (Fed. Cir. 2008), the Federal Circuit provided little guidance on how the newly defined "machine-or-transformation test" should be applied to software patents. In particular, the court left open the question of "whether or when recitation of a computer suffices to tie a process claim to a particular machine." *Id.*

In less than two months after the *Bilski* decision, the Board of Patent Appeals and Interferences (the "Board") has relied on *Bilski* to reject claims in four software patent applications. Thus, it is now fairly clear that the *Bilski* decision will have a significant impact on the prosecution of software patents. This article discusses how the Board has been applying the *Bilski* decision, and outlines several strategies in prosecuting software patents in light of the *Bilski* decision.

The Board's Application of *Bilski* on Software Patents

Merely reciting a computer in a method claim is not sufficient.

In *Ex parte Halligan*, 2008 WL 4998543 (Bd. Pat. App. & Int., Nov. 24, 2008), the Board addressed the issue that was left open in *Bilski*: whether "recitation of a computer suffices to tie a process claim to a particular machine."

The Board held that the mere recitation of a computer in a method claim is not sufficient to render the claim patentable, and affirmed the rejection of claims directed to "a method performed on a programmed computer." The Board reasoned:

"Were the recitation of a 'programmed computer' in combination with purely functional recitations of method steps, where the functions are implemented using an unspecified algorithm, sufficient to transform otherwise unpatentable method steps into a patent eligible process, this would exalt form over substance and would allow pre-emption of the fundamental principle present in the non-machine implemented method by the addition of the mere recitation of a 'programmed computer.'"

Id. at *13. The Board also characterized the recitation of a computer as merely a field-of-use limitation insufficient to render a process claim patent eligible. *Id.*

Software per se or pure software components is not patentable subject matter. In several cases, the Board held that software per se or "purely software components" is not patentable subject matter. *Ex part Godwin*, 2008 WL 4898213 (Bd. Pat. App. & Interf., Nov. 13, 2008); *Ex parte Uceda-Sosa*, 2008 WL 4950944 (Bd. Pat. App. & Interf., Nov. 18, 2008); *Ex parte Noguchi*, 2008 WL 4968270 (Bd. Pat. App. & Interf., Nov. 20, 2008).

For example, in *Uceda-Sosa*, the Board affirmed the rejection of claim 5, which recites "[a] middleware module to represent and store information for a user application." In *Noguchi*, the Board affirmed the rejection of claim 18, which recites "[a] program for causing a computer connected to an external network."

On the other hand, the Board strongly suggested that software would be patentable subject matter if it is "tangibly embodied on a computerreadable medium." *Uceda-Sosa* at 11. *See also Noguchi* at *6.

Transformation of data representing an abstract concept is not patentable subject matter.

All software processes data. Thus, the issue of whether or when the transformation of data is sufficient to render software patent eligible is of significant importance.

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Bilski 案对软件专利的影响

作者: 高焕勇

介绍

在Bilski案中(《联邦判例汇编》第3辑第545卷第943页)

(美国联邦巡回上诉法院,2008 年),美国联邦巡回上诉法院 对新定义的"机器或转变检验 标准"将如何应用到软件专利 中几乎未提供指导。而且法院 对"对计算机的叙述是否以及 何时足以将对方法的权利要求 与特定机器相搭配"这一问题 并未予以解决(同上)。

在Bilski 案裁决后的不到2个 月中,专利上诉暨冲突委员会 ("委员会")根据Bilski案驳 回了四项软件专利申请的权利 要求。因此,目前而言,Bilski 一案的裁决将对软件专利的申 请产生巨大影响这一事实已经 相当明了。本文探讨委员会是 如何应用Bilski案裁决的,以及 概述了鉴于对Bilski一案的裁 决,在申请软件专利中可采用 的几个策略。

委员会将对Bilski一案的判决应 用到软件专利中

在方法权利要求中仅叙述计算 机并不够

在Ex parte Halligan案中(2008年

Westlaw 第4998543号)(专利 上诉暨冲突委员会,2008年11 月24日),委员会解决了*Bikki* 一案中遗留的问题,即:"对 计算机的叙述是否足以将对方 法的权利要求与特定的机器相 搭配。"

委员会判决在方法权利要求中 仅叙述计算机不足以确定权利 要求的可专利性,并维持原 判,驳回了对"运行在程序计 算机上的一种方法"的权利要 求。委员会的理由如下:

"如果对'程序计算机'的叙述结合对方法步骤的纯功能性 叙述,而其中功能是使用未指 定的算法执行的,足以将不可 取得专利的方法步骤转变成一 种专利适格性方法,那么这将 是形式优先与本质,并且破坏 非机器执行的方法不可取得专 利的基本原则。"

(同上*13)。委员会还将对计 算机的叙述定性为仅是不足以 确定方法权利要求专利适格性 的使用领域限制(同上)。

软件本身或纯软件组件不是可 专利性标的物 在几个案件中,委员会判决软 件本身或"纯软件组件"不 是可专利性标的物。 *Ex part Godnvin*案 (2008年*Westlan*)第 4898213号)(专利上诉暨冲突 委员会,2008年11月13日); *Ex parte Uceda-Sosa*案 (2008年 Westlaw 第4950944号)(专利上 诉暨冲突委员会,2008年11月18 日); *Ex parte Noguchi*案 (2008 年Westlaw 第4968270号)(专 利上诉暨冲突委员会,2008年 11月20日)。

例如,在Uceda-Sosa案中,委员 会维持了对权利要求5的驳回判 决,权利要求5陈述了"为用户 应用呈现并存储信息的[一种] 中间件模块。"在 Noguchi案 中,委员会维持了对权利要求 18的驳回判决,权利要求18陈 述了"[一种]使计算机连接到 外网的程序。"

另一方面,委员会极力建议软件是可专利性标的物,但前提 是"有形地体现在计算机可读 介质上。"Uceda-Sosa案第11页。 亦可参见Noguchi案 *6。

代表抽象概念的数据转变不是可专利性标的物

In *Bilski*, the Federal Circuit noted that transformation of data is insufficient to render a process patenteligible if the data "does not specify any particular type or nature of data and does not specify how or where the data was obtained or what the data represented." 545 F.3d at 962.

The Board quickly followed the court's direction. In *Ex parte Halligan*, 2008 WL 4998543 (Bd. Pat. App. & Int., Nov. 24, 2008), two of the claims at issue transform data representing a trade secret. The Board affirmed the rejection of these two claims, reasoning that "the data represents information about a trade secret, which is an intangible asset." *Id.* at *13.

Similarly, in *Ex parte Uceda-Sosa*, 2008 WL 4950944 (Bd. Pat.App. & Interf., Nov. 18, 2008), the Board affirmed the rejection of a claim reciting "[a] method of representing information, said method comprising: generating a first <u>software object</u> comprising a first node" *Id.* at *1.

In sum, the Board has been ruling that the transformation of data representing an abstract concept, including a software object, is not patent eligible under *Bilski*.

On the other hand, the Federal Circuit also stated in *Bilski* that "transformation of data is sufficient to render a process patent-eligible if the data represents physical and tangible objects, *i.e.*, transformation of such raw data into a particular visual depiction of a physical object on a display." The language of "visual depiction of a physical object on a display" appears to be directed to a user interface. Thus, a software claim having user interface components is likely to be patentable subject matter under *Bilski*.

Claim Drafting Strategies After Bilski

The Board's recent decisions offer some guidance on how to draft claims for software patents. Three claim drafting strategies may help applicants obtain favorable rulings on patent eligibility from the Patent Office.

Link software claims to the specific hardware it runs on.

A general purpose computer is not a "machine" within the meaning of *Bilski*. Thus, patent practitioners should always link software claims to the specific hardware it runs on, such as "a program for causing *a base station having a wireless transmitter* to transmit a broadcast message to a mobile station."

Link software claims to a computerreadable medium.

The Board has held that software per se or pure software components is not patentable subject matter, but suggested that software "tangibly embodied on a computer-readable medium" would be patent eligible. Thus, patent practitioners should consider linking software claims to computer – readable medium, such as "a program for causing a computer connected to an external network *tangibly embodied on a computerreadable medium.*"

If possible, link software claims to the user interface.

The Board has held that the transformation of data representing abstract concept is not sufficient to render a claim patent eligible. On the other hand, a claim reciting user interface components related to "visual depiction of a physical object on a display" is likely to be patent eligible. Thus, patent practitioners should consider incorporating user interface components into software claims, such as in "a method of representing information, said method comprising: generating a first software object for generating an alert message on a computer display."

CONCLUSION

The *Bilski* decision has already had a major impact on software patents. The Federal Circuit, the Board, and possibly the Supreme Court, will continue to shape the law on patentable subject matter. To better serve their clients, patent practitioners should closely monitor the latest development, and employ optimal claim drafting strategies accordingly. 软件处理数据。数据转变是否 或何时满足软件专利适格性这 一问题是至关重要的。

在Bilski案中,美国联邦巡回上 诉法院表示:如果数据"未明 确表明数据的类型或性质并且 未明确表明数据是如何以及在 何处获得的或者数据代表的是 什么样的信息",则数据转变 不足以满足方法专利适格性。 《联邦判例汇编》第3辑第545

卷第962页。

委员会很快就采纳了法院的 指示。在Ex parte Halligan案中 (2008年Westlaw 第4998543 号)(专利上诉暨冲突委员会, 2008年11月24日),所涉两项权 利要求转变了代表商业秘密的数 据。委员会维持了对上述两项权 利要求的驳回判决,理由是"数 据代表的是关于商业秘密的信 息。"(同上 *13)。

同样的,在*Ex parte Uceda-Sosa*案 中(2008年Westlaw 第4950944 号)(专利上诉暨冲突委员 会,2008年11月18日),委 员会维持了对一项权利要求 的驳回判决,该权利要求叙述 了"代表信息的[一种]方法, 该方法包括:产生包含首个节 点的首个软件对象……"(同 上*1)。

总之,委员会已经裁决:根据 Bilski案判例,代表抽象概念的 数据转变(包括软件对象)不 具有专利适格性。

另一方面,美国联邦巡回上述 法院在*Bidski*案中还表示"如 果数据代表了有形的物体,则 数据转变足以满足方法专利适 格性。例如:将原始数据转变 成可在显示器上显示的对有形 物体的可视化描述。""显示 器上显示的对有形物体的可视 化描述"与用户界面有关。因 此,拥有用户界面组件的软件 权利要求根据*Bidski*案判例很可 能是可专利性标的物。

在Bilski一案后起草权利要求之 策略

委员会最近做出的裁决为如何 起草软件专利权利要求提供了 某些指导。以下三个权利要求 起草策略将帮助申请者获得专 利局对专利适格性做出的有利 决定。

将软件权利要求与其所运行的 具体硬件相联合

根据*Biliski*案,通用计算机不 是一种"机器"。因此,专利 执业者应将软件权利要求与其 运行的具体硬件相联合,例 如"可使拥有无线发射器的基 站通知信息发射给移动台的程 序。"

将软件权利要求与计算机可读介质相联合

委员会还判定软件本身或纯软件组件不是可专利性标的物, 但表示"有形地表现在计算机可读介质上的"软件具有专利 适格性。因此,专利执业者应考虑将软件权利要求与计算机可读介质联合起来,例如"一种可使计算机连接到外网上的,有形地表现在计算机可读介质上的程序。"

如有可能,将软件权利要求与 用户界面相联合

委员会还裁决代表抽象概念的 数据转变不具有权利要求专利 适格性。另一方面,与"显示 器上显示的对有形物体的可视 化描述"相关的用户界面组件 的权利要求很可能具有专利适 格性。因此,专利执业者应考 虑将用户界面组件纳入到软件 权利要求中,例如"代表信息 的方法,上述方法包括:实现 可在计算机显示器上生成警示 信息的首个软件对象。"

总结

Bilski 一案的判决已经对软件专利产生了重要影响。美国联邦 巡回上诉法院、委员会或者是 最高法院将继续完善关于可专 利性标的物的法律。为了更好 服务客户,专利执业者应密切 关注最新发展并相应的采用最 佳的权利要求起草策略。

Patenting Diagnostic Methods in the Wake of *In re Bilski*

By Janet Xiao

In re Bilski, 545 F.3d 943 (Fed. Cir. 2008) will have a tremendous impact on business method and software patents. In the meantime, the decision also significantly affects patentability of medical diagnostic methods, which frequently involve processes largely performed inside a physician's head, namely, the mental process of correlating a symptom or characteristics of a patient with a specific disease or condition.

The Supreme Court came close to addressing the patentability of a medical diagnostic method in Laboratory Corp. of America Holdings v. Metabolite Laboratories, Inc., 548 U.S. 124 (2006). The claim at issue was directed to "[a] method for detecting a deficiency of cobalamin or folate in warm-blooded animals" comprising the steps of "assaying a body fluid for an elevated level of total homocysteine" and "correlating an elevated level of total homocysteine in said body fluid with a deficiency of cobalamin or folate." Although methods of assaying a body fluid for homocysteine level were known in the art, the correlation between homocysteine level and a deficiency of cobalamin or folate was new. The Supreme Court almost took the time to reject this claim under Section 101, but decided that the issue

had not been properly raised on appeal. In a dissent from the dismissal of certiorari joined by two other Justices, Justice Breyer stated that he would have found the claim unpatentable. He reasoned that the claim only embodies the correlation between homocysteine level and cobalamin or folate deficiency that researchers uncovered, which is a natural phenomenon. He did not believe that the assaying step, which is generally phrased and known in the art, should confer patentability to the claim.

The *Bilski* court notes that its holding would be consistent with Justice Brever's dissent in Lab Corp. Bilski, 545 F.3d 943 n.27. Indeed, under the test articulated in Bilski, the claim at issue in Lab Corp. would likely be found invalid. The correlating step could be performed in a human's mind and consequently cannot serve as the basis for finding patentable subject matter. As set forth in Bilski, "a claimed process wherein all of the process steps may be performed entirely in a human's mind is obviously not tied to any machine and does not transform any article into a different state or thing." Id. at n.26. The assaying step, on the other hand, arguably could be considered as being transformative because it involves the alteration of the body fluid. However, because the assaying step is generally

phrased and not tied to any specific assay, it likely will be considered as not imposing any "meaningful limit" on the claim or simply considered as a datagathering insignificant extra solution.

The *Bilski* decision poses several important questions on how to draft diagnostic method claims, including: (1) Would tying the claim to a specific machine or specific assay method help? (2) What about an additional "transformative" step, such as plotting assay results, communicating assay results to a physician, communicating diagnosis results to a patient, or treating a patient diagnosed with a disease? (3) What if the claim is framed as a "treatment method" rather than a diagnostic method?

In one recent case, *Classen Immunotherapies, Inc. v. Biogen IDEC*, No. 2006-1634, (Fed. Cir. December 19, 2008) (nonprecedential opinion), the Federal Circuit was presented with an opportunity to address these questions and refine patentability standards for medical diagnostic methods, but unfortunately chose not to do so. In *Classen*, the claim at issue was directed to a method of determining whether an immunization schedule affects the incidence or severity of a chronic immune-mediated

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Bilski 案后医疗诊断方法的可专利性 作者: 肖荐

Bilski案(《联邦判例汇编》第3 辑第545卷第943页)(联邦巡回 上诉法院2008年)的判决将对商 业方法专利及软件专利带来重 大影响。同时,该判决也实质 性地影响到医疗诊断方法的可 专利性。医疗诊断方法通常涉 及主要在医生大脑里运行的方 法,即将某个病人的症状或特 点与的某种具体疾病或具体状 态相联系的思维过程。

美国最高法院在"Laboratory Corp. of America Holdings 对Metabolite Laboratories, Inc."一案(《美国 判例汇编》第548卷第124页) (2006年)中涉及了解决医疗 诊断方法的可专利性问题。该 案争议权利要求为"检定恒温动 物体内钴胺素或叶酸含量不足 的方法",包括"检验体液中高半 胱氨酸的整体水平的提高",和" 将上述体液的高半胱氨酸的整 体水平的提高与钴胺素或叶酸 含量不足相联系"两个步骤。尽 管化验体液以获取高半胱氨酸 水平属于已知技术,但将高半 胱氨酸水平与钴胺素或叶酸含 量不足相联系尚属新技术。美 国最高法院几乎认定了该权利 要求应根据第101条被驳回,但 最终决定以该争议未能以合适

的方式在上诉时提出为由而拒 绝受理。法官Breyer在对另外两 名法官联合对调卷令做出的拒 绝受理裁定提出异议时声称, 他认为上述权利要求不应取得 专利,理由是该权利要求仅体 现研究人员所揭示的高半胱氨 酸水平与钴胺素或叶酸含量不 足相关这一自然现象。Breyer不 认为上述化验步骤(该步骤已 普遍为人所知,属已知技术) 能赋予该权利要求可专利性。

审判Bilski案的法院指出,其做 出的裁决与法官Breyer提出的 异议相一致(见《联邦判例汇 编》第3辑第545卷第943页第27 条注释)。的确,根据Bilkki案 设立的检验标准, Lab. Corp.案 中所涉权利要求可能被判为无 效。关联步骤可以在人类大脑 里完成,因此不应作为专利标 准的裁决的依据。如Bilski案中 所述,"一项其所有方法步骤可 完全在人类大脑里完成的方法 显然无须依赖任何机器,也不 能将任何物品转变为其他形态 或物体"(同上第26条注释)。 而另一方面, 化验步骤可被论 证为具有转变性,因为其涉及 体液的改变。但是,由于化验 步骤已普遍为人所知且未和任

何具体的化验相搭配,因此很可能会被认为未对权利要求设置任何"有意义的限制"或仅仅被视作无关紧要的诸如数据搜集的额外解决方案。

Bidkei案的裁决对如何起草与诊断方法相关的权利要求提出了若干重要问题,包括:(1)是 否将权利要求与某特定机器或特定化验方法相搭配就能使权利要求具可专利性?(2)如 果添加其他"转变性"步骤又会 怎样?例如,对化验结果进行 描述、将化验结果告知医生、 将诊断结果告知病人,或对被 诊断患有某疾病的病人进行治 疗?(3)如果将权利要求描述 为"治疗方法"而不是诊断方法, 结果又会怎样?

在最近的"Classen

Immunotherapies, Inc.对Biogen IDEC"(备案号2006-1634) (联邦巡回上诉法院2008年12 月19日)案中(非先例性判 决),联邦巡回上诉法院本有 机会解决上述问题并改进医疗 诊断方法的可专利性标准, 遗憾的是其并没有选择这么 做。Classen案中所涉权利要求 disorder by first immunizing a group of patients with vaccines and then comparing the incidence or severity of the disorder in the treated group with a control group. Even though the claim specifically included the active step of immunizing patients with vaccines, the claim was held invalid under 35 U.S.C. \$101 by the district court. The district court reasoned that the immunization step was insignificant extra-solution activity and that the claims were "an indirect attempt to patent the idea that there is a relationship between vaccine schedules and chronic immune mediated disorders [and]...an attempt to patent an unpatentable natural phenomenon." Id. at 12. The Federal Circuit affirmed. In its one paragraph nonprecedential decision, the Federal Circuit states,

"In light of our decision in *In re Bilski*, 545 F.3d 943 (Fed. Cir. 2008)(en banc), we affirm the district court's grant of summary judgment that these claims are invalid under 35 U.S.C. §101. Dr. Classen's claims are neither 'tied to a particular machine or apparatus' nor do they 'transform a particular article into a different state or thing.' *Bilski*, 545 F.3d at 954. Therefore, we affirm."

There is one other case currently pending in the Federal Circuit that involves a similar fact pattern: *Prometheus Laboratories, Inc. v. Mayo Collaborative Services*, 2008 U.S. Dist. LEXIS 25062 (S. D. Cal. 1008). In *Prometheus*, the claims were directed to correlating the level of a metabolite with toxic side effects of a drug on a patient. The district court granted summary judgment on invalidity under Section 101, holding that the correlation of metabolite level and toxicity was an unpatentable natural phenomenon.

Notably, the claim in Prometheus was framed as a "treatment method." Specifically, the claim at issue was directed to a method of optimizing therapeutic efficacy for treatment of a disease comprising: 1) administering a drug to a subject, 2) determining the level of a metabolite of the drug, wherein a low level of the metabolite indicates the need for an increase in the amount of the drug administered and a high level indicates the need for a decrease in the amount of the drug administered. The district court found the fact that the claim was framed as a treatment method did not help patentability. The court reasoned that a careful review of the claim revealed that the steps embody only a correlation between the metabolite level and drug toxicity, and that the "administering" and "determining" steps were merely necessary data-gathering steps for any use of the correlation. Id. at *17. The court also found a dependent claim reciting a machine capable of performing high pressure liquid chromatography invalid. The court stated that the recitation of a machine in that claim was merely "incidental" to the claim and thus insufficient to "save" the claim from being invalidated. Id. at *44.

While the Federal Circuit may provide some meaningful guidance when deciding on Prometheus, it is unlikely that there will be a uniform solution that will help medical diagnostic patents pass the Bilski test. For example, a transformative step may be considered as being sufficient to render one claim patentable yet found to be merely "insignificant extrasolution" for another claim. Similarly, recitation of a machine may be sufficient to confer patentability to one claim yet considered as not imposing meaningful limitation to another claim. Whether or not a recited machine or transformation confers patentability to the claim will likely entail careful analysis of the nature of the invention and the interrelationship among the different claimed steps.

In the post-Bilski era, there is a greater possibility for accused infringers to assert Section 101 defenses and for licensees to bring Section 101 challenges. Faced with these new potential challenges, patent owners in the diagnostic field should review their patent portfolio and reevaluate the strength of their patents. Looking forward, to obtain strong patents that withstand patentability challenges, it is critical that innovators work closely with patent practitioners to help understand the invention and to ensure that claims are carefully drafted so that they are patentable under Bilski yet broad enough to serve the purpose of effectively blocking competitors.

为通过首先利用疫苗对一组病 人进行免疫接种,然后对接受 治疗病人组与受控制病人组的 慢性免疫调节功能紊乱的发病 率或严重性进行比较,从而确 定免疫程序是否影响紊乱的发 病率或严重性。尽管具体权利 要求包括利用疫苗对病人进行 免疫接种这一主动性步骤,地 区法院仍根据《美国法典》第 35篇第101条判定该权利要求无 效。地区法院推断,免疫接种 步骤属于无关紧要的额外解决 行为,且该权利要求为"间接地 试图就疫苗程序与慢性免疫调 节功能紊乱之间的关系申请专 利[和]....试图为一种不可专利 的自然现象申请专利"(同上第 12页)。联邦巡回上诉法院维 持地区法院的判决。联邦巡回 上诉法院在其仅含一段内容的 非先例性判决里表示:

"根据本院就Bibki案(《联邦 判例汇编》第3辑第545卷第943 页)(联邦巡回上诉法院2008 年)所做裁决,本院维持地区 法院授予的简易判决,即根据 《美国法典》第35篇第101条, 该等权利要求应为无效。Classen 博士的权利要求既'没有和某特 定机器或设备相搭配',也不能 将某特定物品转变为其他形态 或物体'(《联邦判例汇编》第3 辑第543卷第954页Bibki案)。因 此,本院维持原判。" 目前,联邦巡回上诉法院 审理的另一起未决案例, 即"Prometheus Laboratories, Inc.对 Mayo Collaborative Services"案 涉及类似的案例事实。在 Prometheus案(2008年美国地区 法院,LEXIS25062(加里福利 亚南部地区法院,2008年)) 中,权利要求为将药物代谢物 水平与药物给病人造成的毒副 作用相关联。地区法院根据第 101条做出了权利要求无效的简 易判决,判定代谢物水平与毒 性相关联属于一种不可授予专 利的自然现象。

值得注意的是, Prometheus案中的 权利要求被描述为"治疗方法"。 具体而言,该案所涉权利要求是 一种优化疾病治疗功效的方法, 包括: 1) 给主体使用药物, 2) 确定药物的代谢物水平,低水平 代谢物表示需要增加用药剂量, 而高水平代谢物表示需要减少用 药剂量。地区法院判定,将权利 要求限定为治疗方法不会提高可 专利性。据法院推断,对权利要 求进行的严格审核表明,其步骤 仅涵盖代谢物水平与药物毒性之 间的关联性,而"使用"和"确定" 步骤仅仅是运用该等关联性所 需的数据收集步骤(同上第*17 页)。法院还判定一项引用能执 行高压液相色谱法的机器的附属 性权利要求无效。法院表示,在 该权利主张中引用某机器仅仅是 对权利要求的附属,因此不足以 使权利要求免于被判无效的命运 (同上第*44页)。

尽管联邦巡回上诉法院在对 Prometheus案进行判定时可能提供 了一些有意义的指导, 但要有一 个恒定的模式来帮助医疗诊断专 利通过Bikki检验标准是不大可能 的。例如,某个转变步骤可能被 认为足以使一项权利要求获得专 利,但对另一项权利要求而言, 其可能被判定仅仅是"无关紧要 的额外解决方案"。同样,引用 某机器可能足以使某项权利要求 获得可专利性,但对另一项权利 要求而言,其也可能被视为未设 定有意义的限制。要想确定被引 用的机器或转变步骤是否能授予 权利要求可专利性,我们须对发 明的本质及所提出的不同步骤之 间的相互关系进行严谨的分析。

在Bilski案后,以下事件发生的 可能性将增大,即被指控的侵 权人将根据第101条规定进行 抗辩, 而专利被许可人亦将根 据第101条规定提出异议。面 对上述可能出现的新的挑战, 诊断领域的专利权人应仔细审 查其拥有的专利,并对其专利 的价值重新进行评估。要想获 得能抵挡就可专利性提出的异 议的专利,关键在于发明人应 与专利代理人紧密合作,帮助 专利代理人了解其发明,并确 保谨慎起草权利要求,从而保 证权利要求既能根据Bilski检验 标准获得专利,又涵盖面足够 广泛,从而能有效地阻挡竞争 者。

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Intellectual Property Practice News

BACK SECTION

Awards and Accolades

Morrison & Foerster's Intellectual Property practice continues to win prestigious awards and top rankings. In the most recent **Managing Intellectual Property** rankings of IP groups, Morrison & Foerster was ranked as having the fourth largest IP practice in the U.S. with 249 lawyers devoting at least 75% of their time to IP work.

FROM THE DOCKET

Our IP trial lawyers racked up resounding plaintiff and defense wins for several technology clients in recent months. Some of our biggest victories came in key venues, such as the Eastern District of Texas and the International Trade Commission.

Morrison & Foerster Defends Chinese Start-up

In October 2007, Applied Materials filed suit for misappropriation of trade secrets against Shanghai-based start-up **AMEC**. The case alleges that certain former employees of Applied Materials misappropriated trade secrets when they formed AMEC upon returning to China. AMEC is a newcomer to the semiconductor manufacturing equipment space, and its first product is an etch system used to build chips. The firm twice successfully defended AMEC against Applied's motions for emergency orders at the outset of the case seeking expedited discovery. The defense team on this matter consists of **Harold McElhinny** (San Francisco office), **Marc Peters** (Palo Alto office), **Ken Kuwayti** (Palo Alto office), **Mark Danis** (Tokyo office), **Amir Weinberg** (Tokyo office), and **Matt Ahn** (San Francisco office).

Respondents Beat Tessera's Patent Infringement Claims in the ITC

Morrison & Foerster represents respondent Flash memory companies Spansion, Inc. and its affiliate in a closely watched ITC patent suit filed by Tessera Technology, Inc. On December 1, 2008, after a full trial on the merits, the Administrative Law Judge presiding over the case issued an initial determination that Spansion and the other respondents did not violate Section 337 of the Tariff Act because Tessera's patents were not infringed. This tremendous victory for the respondents is the first decision that we know of that has been adverse to Tessera and the patents it has widely licensed and asserted against the semiconductor industry.

The Washington, D.C. team was led by partners **Alexander Hadjis** and **Kristen Yohannan**, with assistance from Of Counsel **Chip Terrill** and **Michael Maas**, and associates

Matthew Vlissides, Robert Giles, Yan Wang, Paul Kletzly, Nabila Isa-Odidi, and Alex Haliasos.

East Texas Jury Awards Pioneer \$60 Million

Morrison & Foerster secured a major victory in October for Pioneer Corporation in a patent infringement suit against Samsung Electronics Co., Ltd. and its affiliates. After an eight-day trial, and only four hours of deliberation, a jury in the Eastern District of Texas decided three Samsung entities had willfully infringed the patents in suit and awarded \$59.3 million in compensatory damages to Pioneer. We are now seeking enhanced damages due to the jury's conclusion that the infringement was willful. Filed in the fall of 2006, the suit asserted that plasma televisions manufactured by Samsung infringed two plasma display technology patents held by Pioneer.

In a press release announcing the outcome of the trial, Pioneer stated: "This significant decision in favor of Pioneer represents recognition of the strength of Pioneer's intellectual property rights in the field of plasma displays."

The winning team was led by **Harold McElhinny** (San Francisco office), **Karen Hagberg** (New York office), and **Andrew Monach** (San Francisco

知识产权业务新闻

奖励和荣誉

美富知识产权业务不断荣获嘉 奖及顶级排名。在英国IP杂志 MIP(Managing Intellectual Property)最近对知识产权团队 进行的排名中,美富被誉为美 国第四大知识产权业务的律师 事务所。249名美富律师将其至 少75%的时间贡献于知识产权 工作。

摘要

在最近几个月里,我们的知识 产权诉讼律师为若干技术客户 赢得了诉讼,其中有些重大胜 诉是在德克萨斯东部地区法院 及美国国际贸易委员会等重要 的审判地取得的。

美富为中国新兴公司进行抗辩

2007年10月,应用材料公司 (Applied Materials)起诉上海新 兴公司中微半导体公司非法使 用其商业秘密。该案声称,应 用材料公司的某些前雇员在回 到中国成立中微半导体公司时 不当使用了原告的商业秘密。 中微半导体公司是半导体制造 设备行业的新秀,其首项产品 是用于制造芯片的蚀刻系统。 应用材料公司曾两度于案件之 始为寻求加快证据开释提出紧 急令申请,本所均成功地就此 为中微半导体公司进行了抗辩。

为该案组成的抗辩团队包括

Harold McElhinny(旧金山办事 处)、Marc Peters(帕洛阿尔托 办事处)、Ken Kuwayti(帕洛阿 尔托办事处)、Mark Danis(东 京办事处)、Amir Weinberg(东 京办事处)及Matt Ahn(旧金山 办事处)。

为被告赢得了Tessera在美国国际贸易委员会提起的专利侵权索赔案

在备受关注的由Tessera技术有限 公司在美国国际贸易委员会提 起的专利诉讼案中,美富代理 被告闪存技术公司(Spansion)及 其关联公司。2008年12月1日, 在全面审判后,主管该案的行 政法法官发布初步判决,认定 闪存技术公司及其他被告未违 反《关税法》第337条,理由是 Tessera的专利并未受到侵犯。据 我们所知,我所本次为被告赢 得的胜诉是首次不利于Tessera及 其专利的判决。Tessera用其专利 对整个半导体行业进行了广泛 的许可要求和诉讼。

我所华盛顿哥伦比亚特区团队 由合伙人Alexander Hadjis及 Kristen Yohannan领导,由法 律顾问Chip Terrill及Michael Maas,律师Matthew Vlissides, Robert Giles, Yan Wang, Paul

Kletzly, Nabila Isa-Odidi及Alex Haliasos提供协助。

德克萨斯州东区法院陪审团裁 决先锋公司获得6000万美元赔偿

在向三星电子及其关联公司提 起的专利侵权诉讼中,美富律 师事务所在10月为先锋公司赢得 了巨大胜利。经过8天的审判, 以及仅仅4个小时的商议,德克 萨斯州东区法院的陪审团判决 3家三星实体曾故意侵犯诉讼 专利,并裁决向先锋公司支付 5930万美元作为损失赔偿金。鉴 于陪审团的结论是故意侵权, 本所目前正在寻求更多的赔偿 金。该诉讼是在2006年秋季提 起的,诉讼指控三星公司生产 的等离子电视侵犯了先锋公司 持有的两项等离子显示器技术 专利。

在宣布审判结果的一篇新闻稿 中,先锋公司表示:"本次有利 于先锋公司的重大判决的认可 了先锋公司在等离子显示器领 域拥有的知识产权实力。"

取得案件胜利的团队由**Harold** McElhinny(旧金山办事处)

、**Karen Hagberg**(纽约办事 处)和 **Andrew Monach**(旧金山 办事处)领导,并由合伙人**Peter Stern**(东京办事处)和 **Taro Isshiki**(东京办事处)、法律顾 office) with assistance from partners **Peter Stern** (Tokyo office) and **Taro Isshiki** (Tokyo office), Of Counsel **Sherman Kahn** (New York office), and associate **Kyle Mooney** (New York office).

Victory for Funai in the ITC

In November, Morrison & Foerster secured a victory for Funai Electric Co., Ltd., and its affiliate, Funai Corporation, Inc. (collectively "Funai"), in a patent infringement case against 14 manufacturers and

问Sherman Kahn (纽约办事处) 、以及律师Kyle Mooney (纽约 办事处)提供协助。

在国际贸易委员会为船井公司 赢得了胜利

在向14家数字电视和其他相关 产品的制造商和进口商提起 的专利侵权案中,美富律师 事务所在11月为船井电机株式 会社及其关联公司船井有限公 司(统称"船井公司")赢得了 importers of digital televisions and other related products. An Administrative Law Judge of the ITC issued an Initial Determination concluding that the accused digital televisions of Vizio, TPV, Amtran, Proview, Syntax-Brillian, and other respondents infringe asserted claims of one of Funai Electric's U.S. patents. The Administrative Law Judge has recommended the full ITC grant a limited exclusion order barring importation of the infringing products into the United States, as well as a

胜利。国际贸易委员会的行政 法法官宣布了最初判决,判决 结果是Vizio、TPV、Amtran、 Proview、Syntax-Brillian以及其他 被告被控诉的数字电视侵犯了船 井电机拥有的一项美国专利的权 利要求。行政法法官建议国际贸 易委员会全面授予有限排除令 (禁止将侵权产品进口到美国) 以及禁止令(阻止在美国出售或 分销上述侵权产品)。 cease-and-desist order to prevent sale or distribution of such infringing products in the United States.

The Morrison & Foerster winning team was led by partner Karl Kramer (Palo Alto office), with assistance from partners Harold McElhinny (San Francisco office), Hector Gallegos (Los Angeles office), Brian Busey (Washington, D.C. office), Louise Stoupe (Tokyo office), Moto Araki (Tokyo office), Nicole Smith, Mark Danis (Tokyo office), and Anthony Press (Los Angeles office).

美富律师事务所取得案件胜利的 团队由合伙人Karl Kramer(帕 罗奥多办事处)领导,由合伙人 Harold McElhinny(旧金山办事 处)、Hector Gallegos(洛杉矶办 事处)、Brian Busey(华盛顿办 事处)、Louise Stoupe(东京办事 处)、Moto Araki(东京办事处), Nicole Smith(洛杉矶)、Mark Danis(东京办事处)和Anthony Press(洛杉矶办事处)提供协助。

Morrison & Foerster Strengthens its China Litigation and IP Practice

Morrison & Foerster has recently enhanced its Litigation and IP practice in China by relocating two seasoned IP attorneys to its Shanghai Office. The firm now offers comprehensive IP services on the ground to its clients in China, including patent litigation, patent prosecution, licensing, and IP due diligence.

Mr. Mike Vella moved from the United States to Shanghai in August 2008, and now leads the firm's litigation practice in China. Mr. Vella has 20 years experience representing clients in international intellectual property disputes, including patent, copyright and trademark litigation. Contact Mr. Vella in Shanghai at myella@mofo.com or +86 21 2322-5200.

Mr. Harris Gao moved from the United States to Shanghai in January 2009. Mr. Gao is experienced in both patent litigation and prosecution, and knowledgeable about IP issues facing high-tech companies. Contact Mr. Gao in Shanghai at <u>hgao@mofo.com</u> or +86 21 2322-5200.

美富律师事务所增强其中国诉讼和知识产权业务

美富律师事务所将两位资深知识产权律师调到上海办事处工作,增强了其中国诉讼和知识产权业务。本所目前在中国本土为其客户提供 全面的知识产权服务,包括专利诉讼、专利申请、许可以及知识产权尽职调查。

魏迈克(Michael Vella)先生已于2008年8月从美国调往上海工作,目前领导本所的中国诉讼业务。魏先生在代理客户处理国际知识产权争议,包括专利、版权和商标诉讼等方面有着20年的经验。请通过电子邮件mvella@mofo.com或电话 +86 21 2322-5200与魏迈克律师联系。

高焕勇(Harris Gao)先生将于2009年1月从美国调往上海工作。高先生在专利诉讼和申请上有着丰富的经验,并精通与高技术公司有关的知识产权问题。请通过电子邮件hgao@mofo.com或电话 +86 21 2322-5200与高焕勇律师联系。

This newsletter addresses recent intellectual property updates. Because of its generality, the information provided herein may not be applicable in all situations and should not be acted upon without specific legal advice based on particular situations. If you wish to change an address, add a subscriber, or comment on this newsletter, please email Michael Zwerin at mailto:maxwerin@mofo.com for the U.S. and Priscilla Chen at priscillachen@mofo.com for China.

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