

Guest Posts: Preparing for Mayo v. Prometheus Labs

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Mayo Collaborative Services v. Prometheus Laboratories, Inc., No. 10-1150 (S. Ct.)

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In *Mayo Collaborative Services v. Prometheus Laboratories, Inc.*, the U.S. Supreme Court looks to address questions of whether and when certain types of medical methods are patentable subject matter. *Prometheus* specifically involves methods for optimizing patient treatment in which the level of a drug metabolite is measured and a measured level above or below a recited amount "indicates a need" to decrease or increase dosage levels. In 2005, the Court granted certiorari on related issues in *Laboratory Corp. of America v. Metabolite Laboratories, Inc.*, but the Court later dismissed *LabCorp* as improvidently granted. In 2010, the Court reaffirmed the existence of meaningful limitations on patentable subject matter in *Bilski v. Kappos*, but the Court but did little to clarify the scope of those limitations.

Will *Prometheus* bring light where *Bilski* failed? Arguments to the Court invite it to further clarify the status of the machine-or-transformation test for process claims. *Bilski* indicated that this test is relevant but not necessarily decisive, and the Federal Circuit relied heavily on the test in upholding the subject-matter eligibility of Prometheus's claims. In the circuit's view, "asserted claims are in effect claims to methods of treatment, which are always transformative when one of a defined group of drugs is administered to the body to ameliorate the effects of an undesired condition." Likewise, a metabolite-level measurement step was found to "necessarily involv[e] a transformation." Although Prometheus's claims include "mental steps," the circuit emphasized that the inclusion of such steps "does not, by itself, negate the transformative nature of prior steps."

Prior <u>posts</u> provide additional background on the Prometheus case. The first wave of <u>merits briefs</u> have been filed. These include the opening brief for the petitioners, briefs in support of the petitioners, and briefs in support of neither party. The respondent-patentee's brief as well as supporting amicus briefs will be due in the upcoming weeks.

BRIEF FOR PETITIONERS (Stephen Shapiro, Mayer Brown): Prometheus's patent claims violate Supreme Court precedent forbidding claims that "preemp[t] all practical use of an abstract idea, natural phenomenon, or mathematical formula." Prometheus's claims "recite a natural phenomenon—the biological correlation between metabolite levels and health—without describing what is to be done with that phenomenon beyond considering whether a dosage adjustment may be necessary." The claims' drug-administration and metabolite-measurement steps are merely "token' and 'conventional' data-gathering steps" that cannot establish subject-matter eligibility. Patent protection is unnecessary to promote the development of diagnostic methods like those claimed and will in fact interfere with both their development and actual medical practice.

AMICUS BRIEFS SUPPORTING PETITIONERS

AARP & PUBLIC PATENT FOUNDATION (Daniel Ravicher, Public Patent & Cardozo School of Law): "Allowing patents on pure medical correlations ... threatens doctors with claims of patent infringement" and "burdens the public with excessive health care costs, and dulls incentives for real innovation." "The Federal Circuit has latched on to trivial steps beyond mental processes, such as the 'administering' step in this case, to uphold patents that effectively preempt all uses of laws of nature." Prometheus's recitation of an "administering" step stands "in stark contrast to most pharmaceutical patents that require a 'therapeutically effective amount' of a drug be administered."

ACLU (Sandra Park, ACLU): In assessing subject matter eligibility, the Supreme Court "has focused on the essence of the claim," using a "pragmatic approach [that] allows the Court to see through clever drafting." Prometheus's insertion of drug-administration and/or measurement steps into a claim "does not alter the fact that the essence of the claim is the correlation between thiopurine drugs and metabolite levels in the blood." Further, the First Amendment bars Prometheus's claims. "What Prometheus seeks to monopolize ... is the right to think about the correlation between thiopurine drugs and metabolite levels, and the therapeutic consequences of that correlation."

AMERICAN COLLEGE OF MEDICAL GENETICS ET AL. (Katherine Strandburg, NYU School of Law): The patents at issue "grant exclusive rights over the mere observation of natural, statistical correlations." They "convert routine, sound medical practice into prohibited infringement" and generate burdens and conflicts for patient care and follow-on innovation. "The machine or transformation test is inapposite ... to determining whether a claim preempts a natural phenomenon." It can be too trivially satisfied without shedding sufficient light on whether claims "reflect inventive activity" or "improperly preempt downstream uses of the phenomenon."

ARUP & LABCORP (Kathleen Sullivan, Quinn Emanuel): "The patents assert exclusive rights over the process of administering a drug and observing the results.... This not only blocks the mental work of doctors advising patients, but also impedes the progress of research by seeking to own a basic law of nature concerning the human body's reaction to drugs." "Patents on measurements of nature" raise constitutional concerns by removing factual information from the public domain, thereby conflicting with patents'

constitutional purpose to "promote the Progress of Science and useful Arts" and threatening to chill "scientific and commercial publication."

CATO INSTITUTE ET AL. (Ilya Shapiro, Cato Institute): This case provides the Supreme Court with an opportunity to strike a blow against the "thousands of abstract process patents which have been improvidently granted since the 1990s" and that are already adversely affecting software and financial innovation. Historically, patentable "processes" "aimed to produce an effect on matter, and these patents do not." The "indicat[ing] a need" clauses in Prometheus's claims do not even form part of a process because they do "not describe an action." Patent claims such as these, "whose final step is mental," impermissibly tread on the public domain and "freedom of thought."

NINE LAW PROFESSORS (Joshua Sarnoff, DePaul College of Law): The Supreme Court "should expressly recognize" that the Constitution requires that "laws of nature, physical phenomena, and abstract ideas" be treated as prior art for purposes of determining patentability. "Allowing patents for uncreative applications would *effectively* provide exclusive rights in and impermissibly reward the ineligible discovery itself." Barring claims like Prometheus's under section 101, as opposed to relying on patentability requirements such as novelty and nonobviousness, promotes "efficient gatekeeping" and "sends important signals."

VERIZON & HP (Michael Kellogg, Kellogg Huber): "It is longstanding law that a claim is non-patentable if it recites a prior art process and adds only the mental recognition of a newly discovered property of that process." *See* Gen. Elec. Co. v. Jewel Incandescent Lamp Co., 326 U.S. 242 (1945). "This principle is soundly based on Section 101's limitation to processes and products that are not only 'useful' but 'new.'" "[A]dding to the old process in Prometheus's patent claims nothing more than a mental step of recognizing the possible health (toxicity or efficacy) significance of the result of the process does not define a 'new and useful process."

AMICUS BRIEFS SUPPORTING NEITHER PARTY

UNITED STATES (Solicitor General Donald Verrilli, Jr.): The claimed methods recite "patent-*eligible* subject matter," and petitioners' objections to patentability are properly understood as challenges to the claimed methods' novelty and nonobviousness. By analogy with "patent law's 'printed matter' doctrine," the claims should ultimately be found invalid because, as construed by the district court, they "merely ... appen[d] a purely mental step or inference to a process that is otherwise known in (or obvious in light of) the prior art." But the Supreme Court should affirm the Federal Circuit's holding on subject matter eligibility.

AIPPI (Peter Schechter, Edwards Wildman): AIPPI "encourages all member countries to allow medical personnel the freedom to provide medical treatment of patients without the authorization of any patentee." Unlike the U.S. and Australia, most countries "exclud[e] methods of medical treatment of patients from patent eligibility." When the medical-practitioner exemption of 35 U.S.C. § 287(c)(1) applies, "the courts lack subject matter

jurisdiction." The exemption applies to the defendants, who "are plainly 'related health care entities." Thus, "the case should be dismissed for lack of federal subject matter jurisdiction."

MICROSOFT (Matthew McGill, Gibson Dunn): Subject-matter eligibility tests should not involve "pars[ing] the claimed invention into the 'underlying invention' and those aspects that are 'conventional' or 'obvious' or insignificant 'extra- or post-solution activity.'" Such parsing lacks any guiding principle that can make its application predictable. Petitioners seek an improperly "expansive application of the mental steps doctrine." "[I]f *every* step of a process claim can be performed in the human mind, that process is unpatentable." But the Federal Circuit has improperly "extended th[is] principle to apply to machines or manufactures that replicate mental steps."

NYIPLA (Ronald Daignault, Robins Kaplan): Innovation's "bewildering pace" argues against "rigid categorization of patent-eligible subject matter." "[T]here is no basis for excluding processes directed to analyzing the chemicals in a patient's body from patent eligibility." When satisfied, the machine-or-transformation test should decisively establish eligibility. But failure of the test should not necessarily establish ineligibility. Preemption analysis "*must* incorporate a critical assessment of whether the claim at issue actually claims a fundamental principle as a fundamental principle in contrast to an application of that principle."

ROCHE & ABBOTT (Seth Waxman, WilmerHale): Patents are crucial for innovation in personalized medicine and more particularly for the continued development diagnostic tests that can enable such medicine's practice. Arguments "that patents on diagnostic tests stifle innovation and basic scientific research" are "largely based on speculation, rather than sound evidence." Generally speaking, "market-driven business practices and self-enforcing market norms correct for any perceived limitations on the accessibility of patented diagnostic technologies." Congress should be trusted to provide appropriate patent-law exemptions for medical practice and research.