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FESTO CORP. *v.* SHOKETSU KINZOKU KOGYO
KABUSHIKI CO., LTD., ET AL.CERTIORARI TO THE UNITED STATES COURT OF APPEALS FOR
THE FEDERAL CIRCUIT

No. 00–1543. Argued January 8, 2002—Decided May 28, 2002

Petitioner Festo Corporation owns two patents for an industrial device. When the patent examiner rejected the initial application for the first patent because of defects in description, 35 U. S. C. § 112, the application was amended to add the new limitations that the device would contain a pair of one-way sealing rings and that its outer sleeve would be made of a magnetizable material. The second patent was also amended during a reexamination proceeding to add the sealing rings limitation. After Festo began selling its device, respondents (hereinafter SMC) entered the market with a similar device that uses one two-way sealing ring and a nonmagnetizable sleeve. Festo filed suit, claiming that SMC's device is so similar that it infringes Festo's patents under the doctrine of equivalents. The District Court ruled for Festo, rejecting SMC's argument that the prosecution history estopped Festo from saying that SMC's device is equivalent. A Federal Circuit panel initially affirmed, but this Court granted certiorari, vacated, and remanded in light of *Warner-Jenkinson Co. v. Hilton Davis Chemical Co.*, 520 U. S. 17, 29, which had acknowledged that competitors may rely on the prosecution history to estop the patentee from recapturing subject matter surrendered by amendment as a condition of obtaining the patent. On remand, the en banc Federal Circuit reversed, holding that prosecution history estoppel applied. The court ruled that estoppel arises from any amendment that narrows a claim to comply with the Patent Act, not only from amendments made to avoid the prior art, as the District Court had held. The Federal Circuit also held that, when estoppel applies, it bars any claim of equivalence for the element that was amended. The court acknowledged that, under its prior cases, prosecution history estoppel constituted a flexible bar, foreclosing some, but not all, claims of equivalence, depending on the purpose of the amendment and the alterations in the text. However, the court overruled its precedents on the ground that their case-by-case approach had proved unworkable.

Held: Prosecution history estoppel may apply to any claim amendment made to satisfy the Patent Act's requirements, not just to amendments made to avoid the prior art, but estoppel need not bar suit against every equivalent to the amended claim element. Pp. 730–742.

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(a) To enable a patent holder to know what he owns, and the public to know what he does not, the inventor must describe his work in “full, clear, concise, and exact terms.” § 112. However, patent claim language may not describe with complete precision the range of an invention’s novelty. If patents were always interpreted by their literal terms, their value would be greatly diminished. Insubstantial substitutes for certain elements could defeat the patent, and its value to inventors could be destroyed by simple acts of copying. Thus, a patent’s scope is not limited to its literal terms, but embraces all equivalents to the claims described. See *Winans v. Denmead*, 15 How. 330, 347. Nevertheless, because it may be difficult to determine what is, or is not, an equivalent, competitors may be deterred from engaging in legitimate manufactures outside the patent’s limits, or lulled into developing competing products that the patent secures, thereby prompting wasteful litigation. Each time the Court has considered the doctrine of equivalents, it has acknowledged this uncertainty as the price of ensuring the appropriate incentives for innovation, and it has affirmed the doctrine over dissents that urged a more certain rule. See, e. g., *id.*, at 343, 347. Most recently, *Warner-Jenkinson*, *supra*, at 28, reaffirmed the doctrine. Pp. 730–733.

(b) Prosecution history estoppel requires that patent claims be interpreted in light of the proceedings before the Patent and Trademark Office (PTO). When the patentee originally claimed the subject matter alleged to infringe but then narrowed the claim in response to a rejection, he may not argue that the surrendered territory comprised an unforeseen equivalent. See *Exhibit Supply Co. v. Ace Patents Corp.*, 315 U. S. 126, 136–137. The rejection indicates that the patent examiner does not believe the original claim could be patented. While the patentee has the right to appeal, his decision to forgo an appeal and submit an amended claim is taken as a concession that the invention as patented does not reach as far as the original claim. See, e. g., *Good-year Dental Vulcanite Co. v. Davis*, 102 U. S. 222, 228. Were it otherwise, the inventor might avoid the PTO’s gatekeeping role and seek to recapture in an infringement action the very subject matter surrendered as a condition of receiving the patent. Pp. 733–735.

(c) Prosecution history estoppel is not limited to amendments intended to narrow the patented invention’s subject matter, e. g., to avoid prior art, but may apply to a narrowing amendment made to satisfy any Patent Act requirement, including § 112’s requirements concerning the patent application’s form. In *Warner-Jenkinson*, the Court made clear that estoppel applies to amendments made for a “substantial reason related to patentability,” 520 U. S., at 33, but did not purport to catalog every reason that might raise an estoppel. Indeed, it stated that even

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if the amendment's purpose were unrelated to patentability, the court might consider whether it was the kind of reason that nonetheless might require estoppel. *Id.*, at 40–41. Simply because estoppel has been discussed most often in the context of amendments made to avoid the prior art, see, *e.g.*, *id.*, at 30, it does not follow that amendments made for other purposes will not give rise to estoppel. Section 112 requires that the application describe, enable, and set forth the best mode of carrying out the invention. The patent should not issue if these requirements are not satisfied, and an applicant's failure to meet them could lead to the issued patent being held invalid in later litigation. Festo's argument that amendments made to comply with § 112 concern the application's form and not the invention's subject matter conflates the patentee's reason for making the amendment with the impact the amendment has on the subject matter. Estoppel arises when an amendment is made to secure the patent and the amendment narrows the patent's scope. If a § 112 amendment is truly cosmetic, it would not narrow the patent's scope or raise an estoppel. But if a § 112 amendment is necessary and narrows the patent's scope—even if only for better description—estoppel may apply. Pp. 735–737.

(d) Prosecution history estoppel does not bar the inventor from asserting infringement against every equivalent to the narrowed element. Though estoppel can bar challenges to a wide range of equivalents, its reach requires an examination of the subject matter surrendered by the narrowing amendment. The Federal Circuit's complete bar rule is inconsistent with the purpose of applying the estoppel in the first place—to hold the inventor to the representations made during the application process and the inferences that may be reasonably drawn from the amendment. By amending the application, the inventor is deemed to concede that the patent does not extend as far as the original claim, not that the amended claim is so perfect in its description that no one could devise an equivalent. The Court's view is consistent with precedent and PTO practice. The Court has consistently applied the doctrine in a flexible way, considering what equivalents were surrendered during a patent's prosecution, rather than imposing a complete bar that resorts to the very literalism the equivalents rule is designed to overcome. *E.g.*, *Goodyear Dental*, *supra*, at 230. The Federal Circuit ignored *Warner-Jenkinson's* instruction that courts must be cautious before adopting changes that disrupt the settled expectations of the inventing community. See 520 U.S., at 28. Inventors who amended their claims under the previous case law had no reason to believe they were conceding all equivalents. Had they known, they might have appealed the rejection instead. *Warner-Jenkinson* struck the appropriate balance by placing the burden on the patentee to prove that an

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amendment was not made for a reason that would give rise to estoppel. *Id.*, at 33. Similarly, the patentee should bear the burden of showing that the amendment does not surrender the particular equivalent in question. As the author of the claim language, his decision to narrow his claims through amendment may be presumed to be a general disclaimer of the territory between the original claim and the amended claim. *Exhibit Supply, supra*, at 136–137. However, in cases in which the amendment cannot reasonably be viewed as surrendering a particular equivalent—*e. g.*, where the equivalent was unforeseeable at the time of the application or the rationale underlying the amendment bears but a tangential relation to the equivalent—the patentee can rebut the presumption that prosecution history estoppel bars a finding of equivalence by showing that at the time of the amendment one skilled in the art could not reasonably be expected to have drafted a claim that would have literally encompassed the alleged equivalent. Pp. 737–741.

(e) Whether Festo has rebutted the presumptions that estoppel applies and that the equivalents at issue have been surrendered should be determined in the first instance by further proceedings below. Pp. 741–742.

234 F. 3d 558, vacated and remanded.

KENNEDY, J., delivered the opinion for a unanimous Court.

Robert H. Bork argued the cause for petitioner. With him on the briefs were *Charles R. Hoffmann, Gerald T. Bodner, Glenn T. Henneberger, Anthony E. Bennett, Andrew L. Frey, Donald M. Falk, and Robert L. Bronston.*

Deputy Solicitor General Wallace argued the cause for the United States as *amicus curiae*. With him on the brief were *Solicitor General Olson, Acting Assistant Attorney General Schiffer, Jeffrey P. Minear, Vito J. DiPietro, Anthony J. Steinmeyer, Howard S. Scher, and Linda Moncys Isacson.*

Arthur I. Neustadt argued the cause for respondents. With him on the brief were *Charles L. Gholz, Robert T. Pous, and James B. Lampert.**

*Briefs of *amici curiae* urging reversal were filed for the American Bar Association by *Robert E. Hirschon, E. Anthony Figg, Minaksi Bhatt, and Robert H. Cameron*; for the American Intellectual Property Law Association by *Lawrence M. Sung and Janice M. Mueller*; for ASTA Medica

JUSTICE KENNEDY delivered the opinion of the Court.

This case requires us to address once again the relation between two patent law concepts, the doctrine of equivalents and the rule of prosecution history estoppel. The Court considered the same concepts in *Warner-Jenkinson Co. v. Hilton Davis Chemical Co.*, 520 U. S. 17 (1997), and reaf-

Aktiengesellschaft by *Steven B. Kelber*; for Bose Corp. by *Charles Hieken* and *Frank P. Porcelli*; for Celltech Group plc. by *Donald S. Chisum*; for Chiron Corp. by *Mr. Chisum*; for the Federal Circuit Bar Association by *Claire Laporte*, *Mitchell J. Matorin*, and *George E. Hutchinson*; for Fédération Internationale des Conseils en Propriété Industrielle by *Maxim H. Waldbaum*, *Raymond C. Stewart*, *John P. Sutton*, and *Tipton D. Jennings IV*; for the Houston Intellectual Property Law Association by *Sharon A. Israel*; for Intellectual Property Creators et al. by *Steven L. Winter*; for Litton Systems, Inc., by *John G. Roberts, Jr.*, *Catherine E. Stetson*, *Rory J. Radding*, and *Stanton T. Lawrence III*; for the Minnesota Mining and Manufacturing Co. et al. by *Carter G. Phillips*, *Joseph R. Guerra*, *Mark E. Haddad*, *Gary L. Griswold*, *Robert A. Armitage*, *Philip S. Johnson*, *Wayne C. Jaeschke*, *Peter C. Richardson*, and *Kenneth Olson*; for the National Bar Association by *Edward W. Gray, Jr.*, *Kendrew H. Colton*, and *John Moses*; for the National Intellectual Property Law Institute by *James Phillip Chandler*; for the Wisconsin Alumni Research Foundation et al. by *Susan G. Braden*, *Kevin M. O'Brien*, and *Michael E. Murphy*; and for Vincent P. Tassinari by *Mr. Tassinari, pro se*.

Briefs of *amici curiae* urging affirmance were filed for the Consumer Project on Technology by *Joshua D. Sarnoff*; for Genentech, Inc., by *Jeffrey P. Kushan* and *Marinn F. Carlson*; for Intel Corp. et al. by *Terry E. Fenzl*, *Alan H. Blankenheimer*, and *Howard Ross Cabot*; and for International Business Machines Corp. et al. by *Christopher A. Hughes*, *Mark J. Abate*, *Frederick T. Boehm*, *Mark F. Chadurjian*, *William J. Coughlin*, *Barry Estrin*, and *Richard Whiting*.

Briefs of *amici curiae* were filed for Applera Corp. et al. by *Matthew D. Powers* and *Edward R. Reines*; for the Institute of Electrical and Electronics Engineers-United States of America by *Andrew C. Greenberg* and *Matthew J. Conigliaro*; for Medimmune, Inc., by *Harvey Kurzweil* and *Henry J. Ricardo*; for the Patent, Trademark, & Copyright Section of the Bar Association of the District of Columbia by *William P. Atkins*; for the Philadelphia Intellectual Property Law Association by *Joan Taft Kluger* and *Manny D. Pokotilow*; and for Sean Patrick Suiter by *Mr. Suiter, pro se*.

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firmed that a patent protects its holder against efforts of copyists to evade liability for infringement by making only insubstantial changes to a patented invention. At the same time, we appreciated that by extending protection beyond the literal terms in a patent the doctrine of equivalents can create substantial uncertainty about where the patent monopoly ends. *Id.*, at 29. If the range of equivalents is unclear, competitors may be unable to determine what is a permitted alternative to a patented invention and what is an infringing equivalent.

To reduce the uncertainty, *Warner-Jenkinson* acknowledged that competitors may rely on the prosecution history, the public record of the patent proceedings. In some cases the Patent and Trademark Office (PTO) may have rejected an earlier version of the patent application on the ground that a claim does not meet a statutory requirement for patentability. 35 U. S. C. § 132 (1994 ed., Supp. V). When the patentee responds to the rejection by narrowing his claims, this prosecution history estops him from later arguing that the subject matter covered by the original, broader claim was nothing more than an equivalent. Competitors may rely on the estoppel to ensure that their own devices will not be found to infringe by equivalence.

In the decision now under review the Court of Appeals for the Federal Circuit held that by narrowing a claim to obtain a patent, the patentee surrenders all equivalents to the amended claim element. Petitioner asserts this holding departs from past precedent in two respects. First, it applies estoppel to every amendment made to satisfy the requirements of the Patent Act and not just to amendments made to avoid pre-emption by an earlier invention, *i. e.*, the prior art. Second, it holds that when estoppel arises, it bars suit against every equivalent to the amended claim element. The Court of Appeals acknowledged that this holding departed from its own cases, which applied a flexible bar when considering what claims of equivalence were estopped by the

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After Festo began selling its rodless cylinder, respondents (whom we refer to as SMC) entered the market with a device similar, but not identical, to the ones disclosed by Festo's patents. SMC's cylinder, rather than using two one-way sealing rings, employs a single sealing ring with a two-way lip. Furthermore, SMC's sleeve is made of a nonmagnetizable alloy. SMC's device does not fall within the literal claims of either patent, but petitioner contends that it is so similar that it infringes under the doctrine of equivalents.

SMC contends that Festo is estopped from making this argument because of the prosecution history of its patents. The sealing rings and the magnetized alloy in the Festo product were both disclosed for the first time in the amended applications. In SMC's view, these amendments narrowed the earlier applications, surrendering alternatives that are the very points of difference in the competing devices—the sealing rings and the type of alloy used to make the sleeve. As Festo narrowed its claims in these ways in order to obtain the patents, says SMC, Festo is now estopped from saying that these features are immaterial and that SMC's device is an equivalent of its own.

The United States District Court for the District of Massachusetts disagreed. It held that Festo's amendments were not made to avoid prior art, and therefore the amendments were not the kind that give rise to estoppel. A panel of the Court of Appeals for the Federal Circuit affirmed. 72 F. 3d 857 (1995). We granted certiorari, vacated, and remanded in light of our intervening decision in *Warner-Jenkinson Co. v. Hilton Davis Chemical Co.*, 520 U. S. 17 (1997). After a decision by the original panel on remand, 172 F. 3d 1361 (1999), the Court of Appeals ordered rehearing en banc to address questions that had divided its judges since our decision in *Warner-Jenkinson*. 187 F. 3d 1381 (1999).

The en banc court reversed, holding that prosecution history estoppel barred Festo from asserting that the accused device infringed its patents under the doctrine of equiva-

lents. 234 F. 3d 558 (2000). The court held, with only one judge dissenting, that estoppel arises from any amendment that narrows a claim to comply with the Patent Act, not only from amendments made to avoid prior art. *Id.*, at 566. More controversial in the Court of Appeals was its further holding: When estoppel applies, it stands as a complete bar against any claim of equivalence for the element that was amended. *Id.*, at 574–575. The court acknowledged that its own prior case law did not go so far. Previous decisions had held that prosecution history estoppel constituted a flexible bar, foreclosing some, but not all, claims of equivalence, depending on the purpose of the amendment and the alterations in the text. The court concluded, however, that its precedents applying the flexible-bar rule should be overruled because this case-by-case approach has proved unworkable. In the court’s view a complete-bar rule, under which estoppel bars all claims of equivalence to the narrowed element, would promote certainty in the determination of infringement cases.

Four judges dissented from the decision to adopt a complete bar. *Id.*, at 562. In four separate opinions, the dissenters argued that the majority’s decision to overrule precedent was contrary to *Warner-Jenkinson* and would unsettle the expectations of many existing patentees. Judge Michel, in his dissent, described in detail how the complete bar required the Court of Appeals to disregard 8 older decisions of this Court, as well as more than 50 of its own cases. 234 F. 3d, at 601–616.

We granted certiorari. 533 U. S. 915 (2001).

II

The patent laws “promote the Progress of Science and useful Arts” by rewarding innovation with a temporary monopoly. U. S. Const., Art. I, § 8, cl. 8. The monopoly is a property right; and like any property right, its boundaries should be clear. This clarity is essential to promote progress, be-

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cause it enables efficient investment in innovation. A patent holder should know what he owns, and the public should know what he does not. For this reason, the patent laws require inventors to describe their work in “full, clear, concise, and exact terms,” 35 U. S. C. § 112, as part of the delicate balance the law attempts to maintain between inventors, who rely on the promise of the law to bring the invention forth, and the public, which should be encouraged to pursue innovations, creations, and new ideas beyond the inventor’s exclusive rights. *Bonito Boats, Inc. v. Thunder Craft Boats, Inc.*, 489 U. S. 141, 150 (1989).

Unfortunately, the nature of language makes it impossible to capture the essence of a thing in a patent application. The inventor who chooses to patent an invention and disclose it to the public, rather than exploit it in secret, bears the risk that others will devote their efforts toward exploiting the limits of the patent’s language:

“An invention exists most importantly as a tangible structure or a series of drawings. A verbal portrayal is usually an afterthought written to satisfy the requirements of patent law. This conversion of machine to words allows for unintended idea gaps which cannot be satisfactorily filled. Often the invention is novel and words do not exist to describe it. The dictionary does not always keep abreast of the inventor. It cannot. Things are not made for the sake of words, but words for things.” *Autogiro Co. of America v. United States*, 384 F. 2d 391, 397 (Ct. Cl. 1967).

The language in the patent claims may not capture every nuance of the invention or describe with complete precision the range of its novelty. If patents were always interpreted by their literal terms, their value would be greatly diminished. Unimportant and insubstantial substitutes for certain elements could defeat the patent, and its value to inventors could be destroyed by simple acts of copying. For this

reason, the clearest rule of patent interpretation, literalism, may conserve judicial resources but is not necessarily the most efficient rule. The scope of a patent is not limited to its literal terms but instead embraces all equivalents to the claims described. See *Winans v. Denmead*, 15 How. 330, 347 (1854).

It is true that the doctrine of equivalents renders the scope of patents less certain. It may be difficult to determine what is, or is not, an equivalent to a particular element of an invention. If competitors cannot be certain about a patent's extent, they may be deterred from engaging in legitimate manufactures outside its limits, or they may invest by mistake in competing products that the patent secures. In addition the uncertainty may lead to wasteful litigation between competitors, suits that a rule of literalism might avoid. These concerns with the doctrine of equivalents, however, are not new. Each time the Court has considered the doctrine, it has acknowledged this uncertainty as the price of ensuring the appropriate incentives for innovation, and it has affirmed the doctrine over dissents that urged a more certain rule. When the Court in *Winans v. Denmead*, *supra*, first adopted what has become the doctrine of equivalents, it stated that "[t]he exclusive right to the thing patented is not secured, if the public are at liberty to make substantial copies of it, varying its form or proportions." *Id.*, at 343. The dissent argued that the Court had sacrificed the objective of "[f]ul[l]ness, clearness, exactness, preciseness, and particularity, in the description of the invention." *Id.*, at 347 (opinion of Campbell, J.).

The debate continued in *Graver Tank & Mfg. Co. v. Linde Air Products Co.*, 339 U. S. 605 (1950), where the Court reaffirmed the doctrine. *Graver Tank* held that patent claims must protect the inventor not only from those who produce devices falling within the literal claims of the patent but also from copyists who "make unimportant and insubstantial changes and substitutions in the patent which, though adding

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nothing, would be enough to take the copied matter outside the claim, and hence outside the reach of law.” *Id.*, at 607. Justice Black, in dissent, objected that under the doctrine of equivalents a competitor “cannot rely on what the language of a patent claims. He must be able, at the peril of heavy infringement damages, to forecast how far a court relatively unversed in a particular technological field will expand the claim’s language” *Id.*, at 617.

Most recently, in *Warner-Jenkinson*, the Court reaffirmed that equivalents remain a firmly entrenched part of the settled rights protected by the patent. A unanimous opinion concluded that if the doctrine is to be discarded, it is Congress and not the Court that should do so:

“[T]he lengthy history of the doctrine of equivalents strongly supports adherence to our refusal in *Graver Tank* to find that the Patent Act conflicts with that doctrine. Congress can legislate the doctrine of equivalents out of existence any time it chooses. The various policy arguments now made by both sides are thus best addressed to Congress, not this Court.” 520 U. S., at 28.

III

Prosecution history estoppel requires that the claims of a patent be interpreted in light of the proceedings in the PTO during the application process. Estoppel is a “rule of patent construction” that ensures that claims are interpreted by reference to those “that have been cancelled or rejected.” *Schriber-Schroth Co. v. Cleveland Trust Co.*, 311 U. S. 211, 220–221 (1940). The doctrine of equivalents allows the patentee to claim those insubstantial alterations that were not captured in drafting the original patent claim but which could be created through trivial changes. When, however, the patentee originally claimed the subject matter alleged to infringe but then narrowed the claim in response to a rejection, he may not argue that the surrendered territory com-

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established that the inventor turned his attention to the subject matter in question, knew the words for both the broader and narrower claim, and affirmatively chose the latter.

A

The first question in this case concerns the kinds of amendments that may give rise to estoppel. Petitioner argues that estoppel should arise when amendments are intended to narrow the subject matter of the patented invention, for instance, amendments to avoid prior art, but not when the amendments are made to comply with requirements concerning the form of the patent application. In *Warner-Jenkinson* we recognized that prosecution history estoppel does not arise in every instance when a patent application is amended. Our “prior cases have consistently applied prosecution history estoppel only where claims have been amended for a limited set of reasons,” such as “to avoid the prior art, or otherwise to address a specific concern—such as obviousness—that arguably would have rendered the claimed subject matter unpatentable.” 520 U. S., at 30–32. While we made clear that estoppel applies to amendments made for a “substantial reason related to patentability,” *id.*, at 33, we did not purport to define that term or to catalog every reason that might raise an estoppel. Indeed, we stated that even if the amendment’s purpose were unrelated to patentability, the court might consider whether it was the kind of reason that nonetheless might require resort to the estoppel doctrine. *Id.*, at 40–41.

Petitioner is correct that estoppel has been discussed most often in the context of amendments made to avoid the prior art. See *Exhibit Supply Co.*, *supra*, at 137; *Keystone Driller Co. v. Northwest Engineering Corp.*, 294 U. S. 42, 48 (1935). Amendment to accommodate prior art was the emphasis, too, of our decision in *Warner-Jenkinson*, *supra*, at 30. It does not follow, however, that amendments for other purposes will not give rise to estoppel. Prosecution

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the patent's scope or raise an estoppel. On the other hand, if a § 112 amendment is necessary and narrows the patent's scope—even if only for the purpose of better description—estoppel may apply. A patentee who narrows a claim as a condition for obtaining a patent disavows his claim to the broader subject matter, whether the amendment was made to avoid the prior art or to comply with § 112. We must regard the patentee as having conceded an inability to claim the broader subject matter or at least as having abandoned his right to appeal a rejection. In either case estoppel may apply.

B

Petitioner concedes that the limitations at issue—the sealing rings and the composition of the sleeve—were made for reasons related to § 112, if not also to avoid the prior art. Our conclusion that prosecution history estoppel arises when a claim is narrowed to comply with § 112 gives rise to the second question presented: Does the estoppel bar the inventor from asserting infringement against any equivalent to the narrowed element or might some equivalents still infringe? The Court of Appeals held that prosecution history estoppel is a complete bar, and so the narrowed element must be limited to its strict literal terms. Based upon its experience the Court of Appeals decided that the flexible-bar rule is unworkable because it leads to excessive uncertainty and burdens legitimate innovation. For the reasons that follow, we disagree with the decision to adopt the complete bar.

Though prosecution history estoppel can bar a patentee from challenging a wide range of alleged equivalents made or distributed by competitors, its reach requires an examination of the subject matter surrendered by the narrowing amendment. The complete bar avoids this inquiry by establishing a *per se* rule; but that approach is inconsistent with the purpose of applying the estoppel in the first place—to hold the inventor to the representations made during the application process and to the inferences that may reason-

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The Court of Appeals ignored the guidance of *Warner-Jenkinson*, which instructed that courts must be cautious before adopting changes that disrupt the settled expectations of the inventing community. See 520 U. S., at 28. In that case we made it clear that the doctrine of equivalents and the rule of prosecution history estoppel are settled law. The responsibility for changing them rests with Congress. *Ibid.* Fundamental alterations in these rules risk destroying the legitimate expectations of inventors in their property. The petitioner in *Warner-Jenkinson* requested another bright-line rule that would have provided more certainty in determining when estoppel applies but at the cost of disrupting the expectations of countless existing patent holders. We rejected that approach: “To change so substantially the rules of the game now could very well subvert the various balances the PTO sought to strike when issuing the numerous patents which have not yet expired and which would be affected by our decision.” *Id.*, at 32, n. 6; see also *id.*, at 41 (GINSBURG, J., concurring) (“The new presumption, if applied woodenly, might in some instances unfairly discount the expectations of a patentee who had no notice at the time of patent prosecution that such a presumption would apply”). As *Warner-Jenkinson* recognized, patent prosecution occurs in the light of our case law. Inventors who amended their claims under the previous regime had no reason to believe they were conceding all equivalents. If they had known, they might have appealed the rejection instead. There is no justification for applying a new and more robust estoppel to those who relied on prior doctrine.

In *Warner-Jenkinson* we struck the appropriate balance by placing the burden on the patentee to show that an amendment was not for purposes of patentability:

“Where no explanation is established, however, the court should presume that the patent application had a substantial reason related to patentability for including the limiting element added by amendment. In those

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may be some other reason suggesting that the patentee could not reasonably be expected to have described the insubstantial substitute in question. In those cases the patentee can overcome the presumption that prosecution history estoppel bars a finding of equivalence.

This presumption is not, then, just the complete bar by another name. Rather, it reflects the fact that the interpretation of the patent must begin with its literal claims, and the prosecution history is relevant to construing those claims. When the patentee has chosen to narrow a claim, courts may presume the amended text was composed with awareness of this rule and that the territory surrendered is not an equivalent of the territory claimed. In those instances, however, the patentee still might rebut the presumption that estoppel bars a claim of equivalence. The patentee must show that at the time of the amendment one skilled in the art could not reasonably be expected to have drafted a claim that would have literally encompassed the alleged equivalent.

IV

On the record before us, we cannot say petitioner has rebutted the presumptions that estoppel applies and that the equivalents at issue have been surrendered. Petitioner concedes that the limitations at issue—the sealing rings and the composition of the sleeve—were made in response to a rejection for reasons under § 112, if not also because of the prior art references. As the amendments were made for a reason relating to patentability, the question is not whether estoppel applies but what territory the amendments surrendered. While estoppel does not effect a complete bar, the question remains whether petitioner can demonstrate that the narrowing amendments did not surrender the particular equivalents at issue. On these questions, SMC may well prevail, for the sealing rings and the composition of the sleeve both were noted expressly in the prosecution history. These matters, however, should be determined in the first instance

