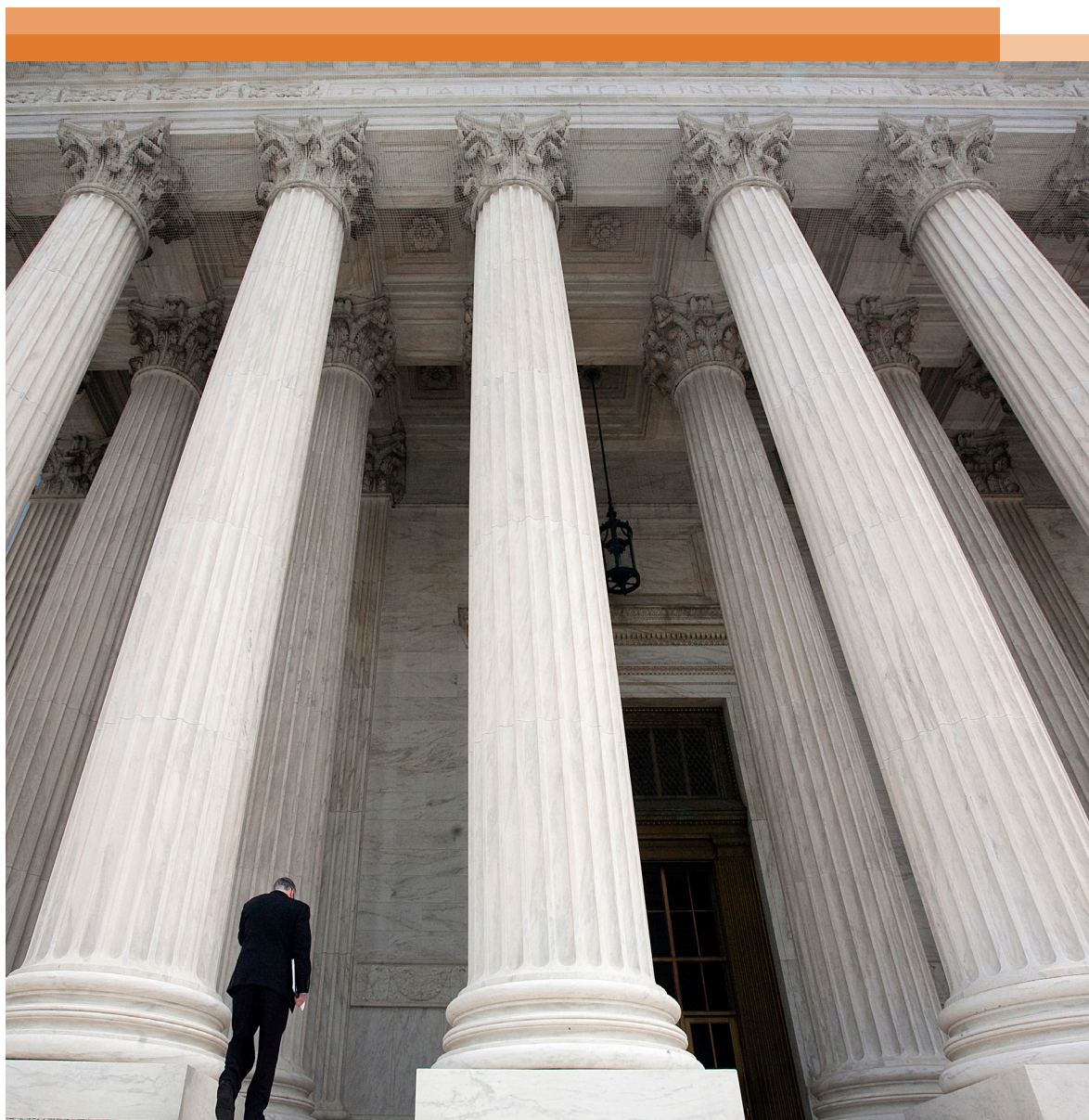


# ***2014 Patent Litigation Study***

As case volume leaps, damages  
continue general decline

July 2014



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## Introduction

*In some ways, 2013 appeared to be a moderating year in patent infringement litigation. The “mega” verdicts of prior years (2012 saw three cases that resulted in damages awards of over \$1 billion) were missing, with the largest new award falling to just over \$200 million.<sup>1</sup> Four of the ten largest awards from previous years were settled, overturned, modified or remain under appeal in 2013. And the median damages award continued its gradual downward tapering, to \$4.3 million in the most recent four-year period.*

On the other hand, both the number of patent cases filed and the number of patents granted continued to grow rapidly in 2013—by 25% (to almost 6,500 cases) and 7% (to almost 300,000 patents), respectively, over 2012. And mega-cases continued to make headlines, including one involving an “at-risk” launch of a generic pharmaceutical that was settled mid-trial for \$2.15 billion, and another matter involving medical devices where post-trial bench consideration added substantial punitive damages, potentially bringing total damages to over \$1 billion. The year 2013 also saw the continuation of the multi-year “smartphone wars,” both in district courts and before the International Trade Commission (ITC).

Nonpracticing entities (NPEs) continued to play a growing role in patent litigation in 2013. One recent analysis reported that in 2013 NPEs filed 67% of all new patent infringement cases, compared to 28% in 2009.<sup>2</sup> Our statistics indicate that only 20% of identified decisions in 2013 involved NPE patent holders, reflecting the much higher tendency for NPE-filed cases to settle or be dismissed. However, as further detailed in this year’s study, NPEs’ median damages award in recent years has been triple that of practicing entities.

These statistics, along with some notorious examples of aggressive NPE tactics, not only caught the attention of practicing entities, but also instigated multiple political responses. As widely reported in the media and discussed by numerous commentators, these responses include strong anti-NPE comments by President Obama, several executive actions aimed at tightening patent ownership disclosures and narrowing patent claims, a formal probe of NPE litigation activity initiated by the Federal Trade Commission (FTC), and a myriad of legislative proposals and state Attorneys General actions that generally seek to rein in NPE litigation.

Finally, the US Supreme Court has gotten fully involved in the patent litigation fray, with six patent matters granted certiorari in the most recent term. These matters related to issues such as: the scope of patentable subject matter in business method patents; the extent to which activities outside US borders can infringe US patents; under what circumstances defendants can recover litigation costs from losing plaintiffs; and certain technical patenting and procedural issues.

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<sup>1</sup> The largest patent infringement award in 2013 resulted from a retrial of damages related to certain products in the well-known *Apple v. Samsung* matter, which was originally tried in 2012.

<sup>2</sup> See RPX Corporation’s “2013 NPE Litigation Report.”

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## Summary of key observations

*Recognizing the ongoing critical, strategic interest in intellectual property matters, PwC gathers and maintains a database of US patent infringement actions. We collect information on liability outcomes, damages awarded, time-to-trial, trier of fact, type of entity (practicing vs. nonpracticing), industry, district court and judge. Our primary case data relates to the 19-year period of 1995 through 2013.*

*This year, in response to reader requests, our 2014 Patent Litigation Study adds a set of statistics on the outcome of patent infringement appeals to the US Court of Appeals for the Federal Circuit.*

*We analyzed this data with a focus on helping executives, legislators, and litigators assess patent enforcement or defense strategies—as well as the impact of NPEs.*

Here are some of our key observations, which are illustrated and discussed in the pages that follow:

- Median damages awards continue to trend down—to \$4.3 million in recent years.
- Damages awards for NPEs averaged more than triple those for practicing entities over the last four years.
- The median jury award amounted to nearly 37.5 times the median bench award between 2010 and 2013.
- Reasonable royalties remain the predominant measure of patent damages, consistently representing around 80% of awards since 2000. However, lost profits showed a surprising resurgence over the last four years, growing to a 37% share of the awards.
- NPEs have been successful 25% of the time overall, versus 35% for practicing entities, due to the relative lack of success for NPEs at summary judgment. However, both types of entities win about two-thirds of their trials.
- The median damages award in the telecommunications industry was the highest, at \$22 million over the full study period. Biotechnology/pharmaceutical, medical devices, and computer hardware/electronics also had relatively high median damages awards, at double to triple the overall median across all industries.
- The top four districts in terms of favorability to patent holders (Virginia Eastern, Delaware, Texas Eastern and Wisconsin Western) remain the same as last year's study.





- NPE cases continue to be concentrated in certain district courts: five district courts (out of a total of 94) accounted for 41% of all identified decisions where the patent holder was an NPE, with the Eastern District of Texas alone accounting for 12% of all identified NPE decisions.
  - Median damages awards and success rates vary significantly among types of NPE, with individual NPEs experiencing markedly lower award and success rates.
  - Abbreviated New Drug Application (ANDA) litigation continues its dramatic growth trajectory, representing almost one-tenth of all adjudicated cases in the last eight years. The overall ANDA success rate since 2006 is 52%—much higher than the study's overall 33% patentee success rate.
  - Of the ten currently sitting judges with most active patent dockets, five are in Delaware and the Eastern District of Texas.
- Eight of these most active judges' cases yielded damages awards significantly exceeding the overall median.
- About 71% of district court patent decisions are appealed to the Federal Circuit, generally by the losing side or by both parties, and usually on multiple grounds. Of these, 64% received a reasoned opinion, 11% concluded with a summary affirmance and the remaining 25% were dismissed, settled or are still pending.
  - Of the appeals decided by the Federal Circuit, most (65%) received a mixed decision; that is, of the multiple issues raised, the court affirmed some issues but also reversed or vacated others. The remaining appellate decisions were entirely one-sided: 24% were affirmed in total, while 11% were reversed/vacated/remanded in total. Accordingly, 76% of patent cases appealed to the Federal Circuit were modified in some manner.

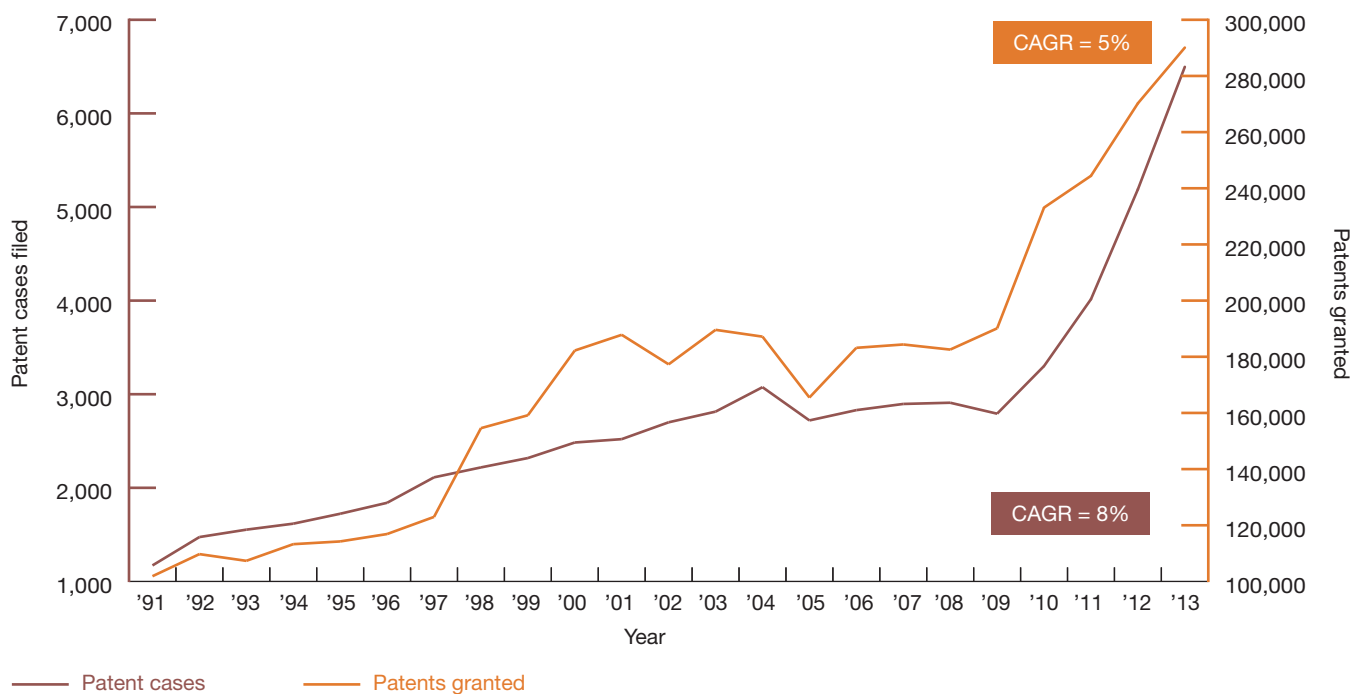
## Detailed findings

### Patents issued and cases filed reach new highs

As Chart 1 illustrates, the annual number of patent actions filed once again establishes a new record high, with close to 6,500 cases filed in 2013. The number of cases has increased at an overall compound annual growth rate (CAGR) of 8% since 1991. However, since 2009, the CAGR of the number of patent cases filed has been 24%, or almost three times the growth over the entire period. Two factors driving growth in recent years were the anti-joiner provision of the America Invents Acts (AIA), which went into effect in 2011, and the temporary crush of false marking cases in 2010 and 2011.

Meanwhile, the number of patents granted by the United States Patent and Trademark Office (USPTO) has also grown steadily, increasing at a CAGR of 5% since 1991. Similar to patent cases filed, the CAGR of patents granted since 2009 has been much higher than the longer-term growth at 11%. As the chart further shows, 2013 continued the trend of high correlation (approximately 94% since 1991) between the numbers of patent cases filed and patents granted by the USPTO.

Chart 1. Patent case filings and grants



Years are based on September year-end.

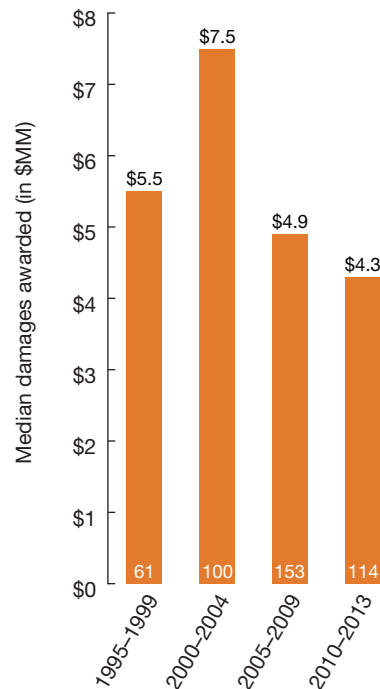
Sources: *Performance & Accountability Report* (US Patent and Trademark Office) and *Judicial Facts and Figures* (US Courts)

## Median damages are on a downward trend

Adjusting for inflation using the consumer price index (CPI), the annual median damages award between 1995 and 2013 ranged from \$2.1 million to \$16.7 million, with an overall median award of \$5.5 million over the last 19 years (the 2013 figure was \$5.9 million).

As Chart 2a illustrates, when we segment the period from 1995 through 2013 into fourths, we see that the median damages award has declined from its high-water mark in the early 2000s.

**Chart 2a. Median damages awarded**



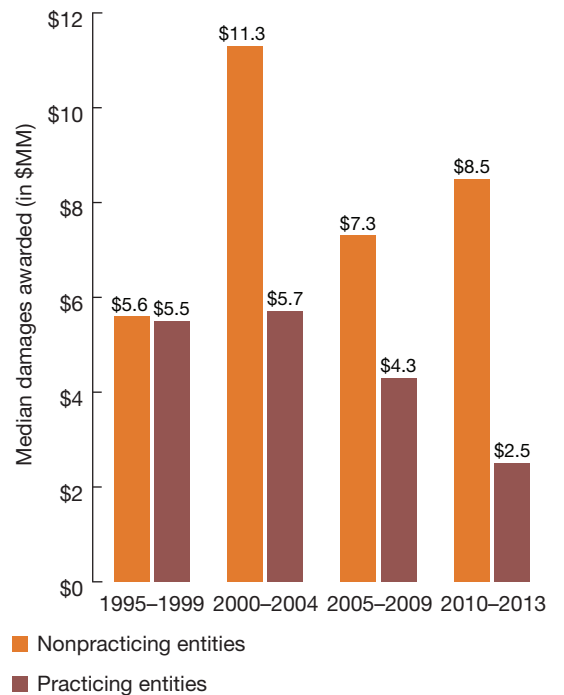
Median damages are adjusted for inflation to 2013 US dollars.

The number of identified decisions is indicated within the respective column.

## But for NPEs, median awards are increasing

Chart 2b shows the continuation of a trend that began in the early 2000s: a wide disparity in the damages awarded to NPEs relative to practicing entities. While median awards for practicing entities have declined steadily since the 2000-2004 period, NPE awards actually increased during the 2010-2013 period.

**Chart 2b. Median damages awarded: nonpracticing entities vs. practicing entities**



Median damages are adjusted for inflation to 2013 US dollars.

## No 2013 cases cracked the top ten overall awards

Substantial damages awards tend to grab headlines. Chart 3 displays the top ten damages awards in federal district courts since 1995. Since 2012—when three awards of over \$1 billion broke into the top ten list—no awards have even come close. The largest new patent infringement award in 2013 was \$228 million, in the *Stryker Corp. v. Zimmer Inc.* matter.

It is important to note that the awards reflected in Chart 3 are those identified during initial adjudication; most of these awards have since been vacated, remanded, or reduced.

**Chart 3. Top ten largest initial adjudicated damages awards: 1995–2013**

Year	Plaintiff	Defendant	Technology	Award (in \$MM)
2009	Centocor Ortho Biotech Inc.	Abbott Laboratories	Arthritis drugs	\$1,673
2007	Lucent Technologies Inc.	Microsoft Corp.	MP3 technology	\$1,538
2012	Carnegie Mellon University	Marvell Technology Group	Noise reduction on circuits for disk drives	\$1,169
2012	Apple Inc.	Samsung Electronics Co.	Smartphone software	\$1,049
2012	Monsanto Company	E.I. DuPont De Nemours and Company	Genetically modified soybean seeds	\$1,000
2010	Mirror Worlds LLC	Apple Inc.	Operating system	\$626
2005	Cordis Corp.	Medtronic Vascular, Inc.	Vascular stents	\$595
2004	Eolas Technologies Inc.	Microsoft Corp.	Internet browser	\$521
2011	Bruce N. Saffran M.D.	Jonhson & Johnson	Drug-eluting stents	\$482
2008	Bruce N. Saffran M.D.	Boston Scientific Corp.	Drug-eluting stents	\$432



### Jury trials are favored overall

Unlike the 1980s and 1990s, the last decade-plus has seen juries evolve as the preferred trier of fact in patent infringement litigation. (The results in Chart 4a exclude ANDA-related litigation, as these cases are, with rare exceptions, tried by the bench, and their increasing prevalence in recent years would otherwise skew this measure.)

### However, the jury vs. bench success gap is narrowing

Numerous factors contribute to the increased use of juries as the preferred fact finder for patent cases. Over the last 19 years, patent holders generally have experienced higher trial success rates when their cases are decided by juries rather than by the bench. However, as Chart 4b illustrates, the margin between bench and jury success rates has been steadily narrowing—from almost 40% in the earliest period of our Study to only about 10% between 2010 and 2013.

Chart 4a. Use of jury trials by decade

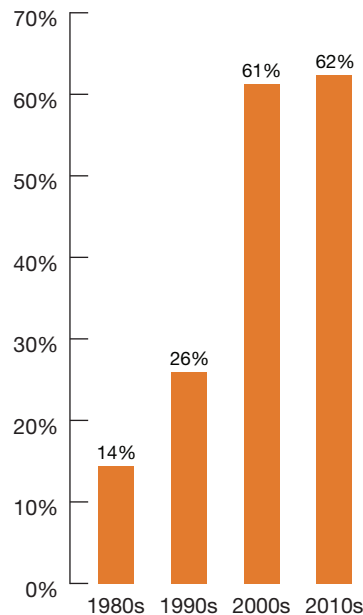
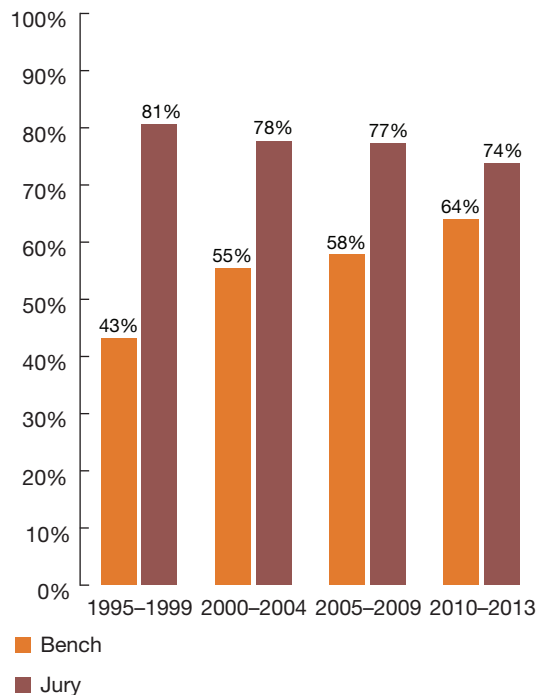


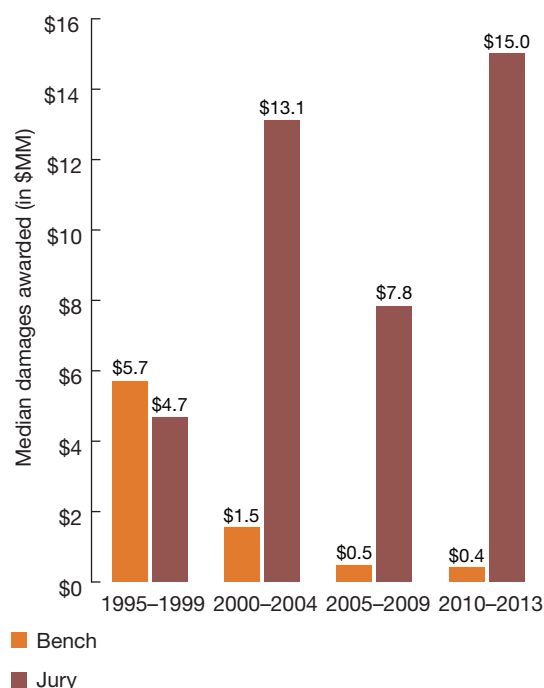
Chart 4b. Trial success rates: bench vs. jury



## Still, median jury awards substantially outpace the bench

Since 2000, median jury awards have been significantly greater than median awards by the bench, with jury awards running many multiples of the amounts awarded by judges over the last 14 years. This growing gap partially reflects the decrease in high-stakes damages cases that are heard by the bench. For example, the jury share of all cases with damages awarded increased from 24% in 1995–1999 to 61% in 2010–2013. Large-dollar damages cases are almost always tried by juries.

**Chart 4c. Median damages awarded: bench vs. jury trials**



Median damages are adjusted for inflation to 2013 US dollars.

## Reasonable royalties are the most prevalent measure of damages

Reasonable royalties are the type of damages most frequently awarded in patent cases—constituting a share that continues to increase every year, as Chart 5 shows. However, in the most recent period (2010–2013), lost profits as a measure of damage have resurged somewhat, being awarded in 37% of decided cases.<sup>3</sup> Patent law sets a reasonable royalty as the minimum level of compensation due to the patent holder from an infringer.

There are several reasons why lost profits damages are not as common as reasonable royalties:

- NPEs, which bring an increasing proportion of patent actions, are ineligible for lost profits damages. Excluding NPE results from Chart 5, the proportion of damages awarded through reasonable royalties decreases by about 7%.
- Even patentees eligible for lost profits awards might eschew lost profits claims. Patent holders might not want to risk disclosing proprietary cost and profit information necessary for the calculation of lost profits.
- Lost profits entitlement can be more difficult to establish. The proliferation of competition and specialized distribution channels provides greater access to substitute products; therefore, even without an alleged infringer's products on the market, consumers may not have bought the patent holder's products.

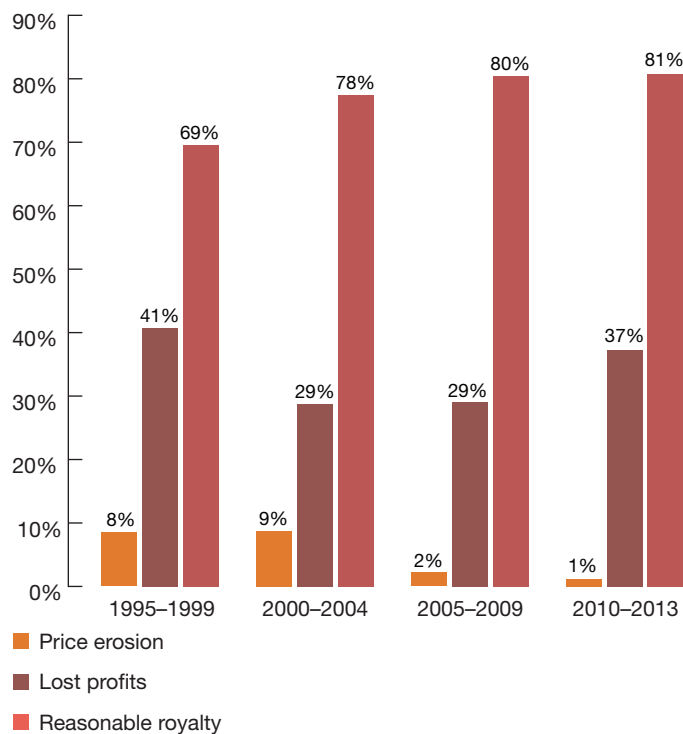
<sup>3</sup> Because some litigants receive damages awards of both lost profits and reasonable royalties, the totals exceed 100%.

## Success rates vary by type of entity and stage of decision

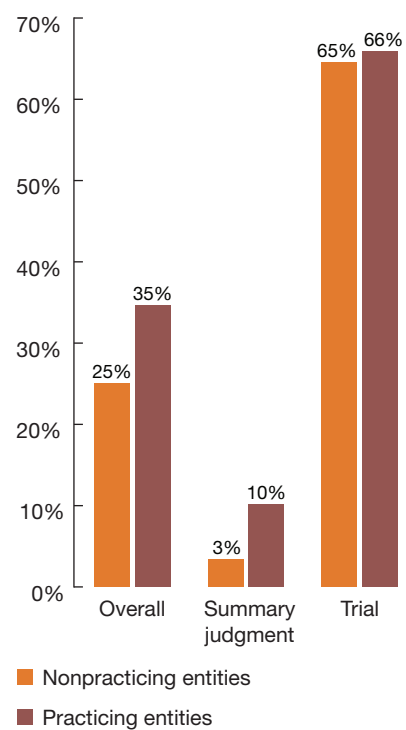
Finally, damages awards for price erosion claims have become almost non-existent over the last nine years. The cost and complexity of price erosion analyses have reduced the recovery (and, most likely, the pursuit) of price erosions claims.

Chart 6a shows that the overall success rate for practicing entities is 10% higher than that for NPEs over the last 19 years. NPEs are much less successful at the summary judgment stage: winning in only 3% of identified decisions, as opposed to 10% for practicing entities. Conversely, the trial success rate for practicing entities is nearly identical to that for NPEs, at roughly two-thirds.

**Chart 5. Composition of damages awards**



**Chart 6a. Patent holder success rates: 1995–2013**



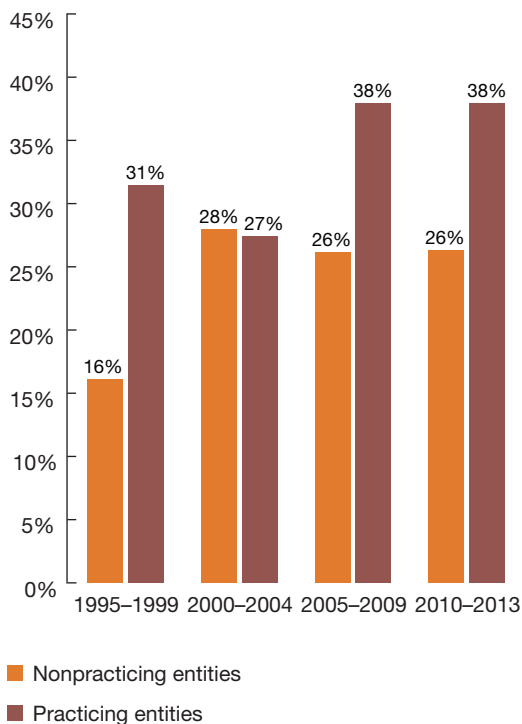
## Practicing entities are generally more successful than NPEs

By segmenting the overall success rate data for NPEs and practicing entities within the last 19 years, we discern an interesting pattern. While the difference in overall success rates for NPEs versus practicing entities essentially vanished in the early 2000s, the gap widened again over the last 9 years. Between 2005 and 2013, the practicing entity overall success rate outpaced that for NPEs by more than 11%, coming close to restoring the differential observed in the late 1990s.

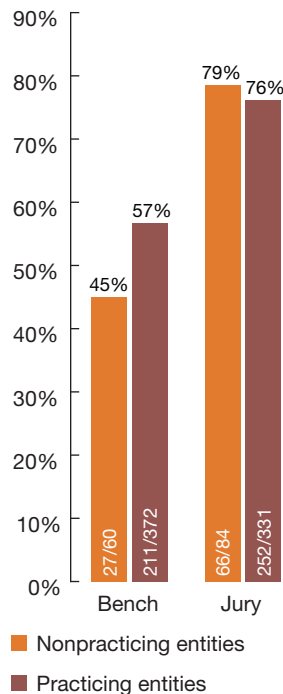
## NPEs and practicing entities are more successful with juries

Chart 6c illustrates that since 1995, both practicing entities and NPEs have been significantly more successful with jury trials than they have been with bench trials. The chart also captures a divergence: while practicing entities enjoy a success rate that is more than 11% higher than NPEs when their case is tried by the bench, their success rate with juries is slightly lower than that for NPEs.

**Chart 6b. Patent holder overall success rates**



**Chart 6c. Patent holder success rates at trial: 1995–2013**



The number of cases is indicated within the respective column.

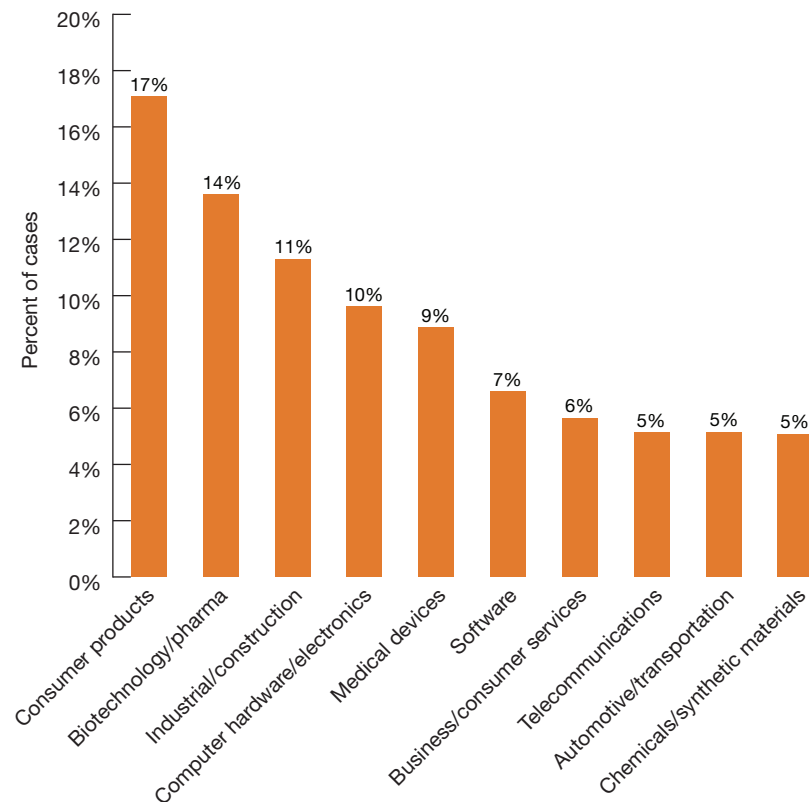


## Patent litigation across industries: consumer products lead in terms of volume

Chart 7a shows the distribution of cases for the ten most active industry classifications (out of 20), which collectively account for almost 90% of total identified decisions.

Patents associated with the consumer products industry led in terms of the percentage of identified decisions between 1995 through 2013, representing 17% of the total.

**Chart 7a. Distribution of cases: top ten industries, 1995–2013**

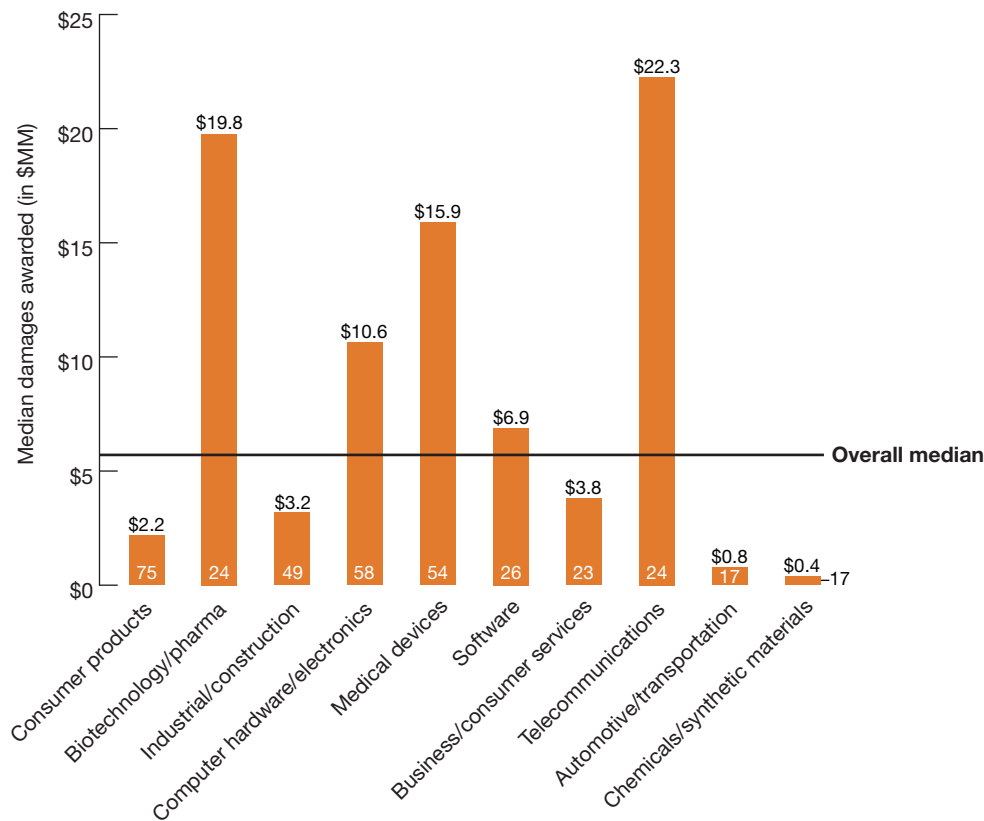


## Median damages are largest in telecommunications

While patents associated with the consumer products industry represented the largest percentage of identified decisions, the median damages awarded were relatively low compared to the nine other most active industries. Consistent with last year's 2013

Patent Litigation Study, patented technology associated with the telecommunications, biotechnology/pharmaceutical and medical devices industries experienced significantly higher median damages awards than those in other industries.

**Chart 7b. Median damages awarded: top ten industries, 1995–2013**



Median damages are adjusted for inflation to 2013 US dollars.

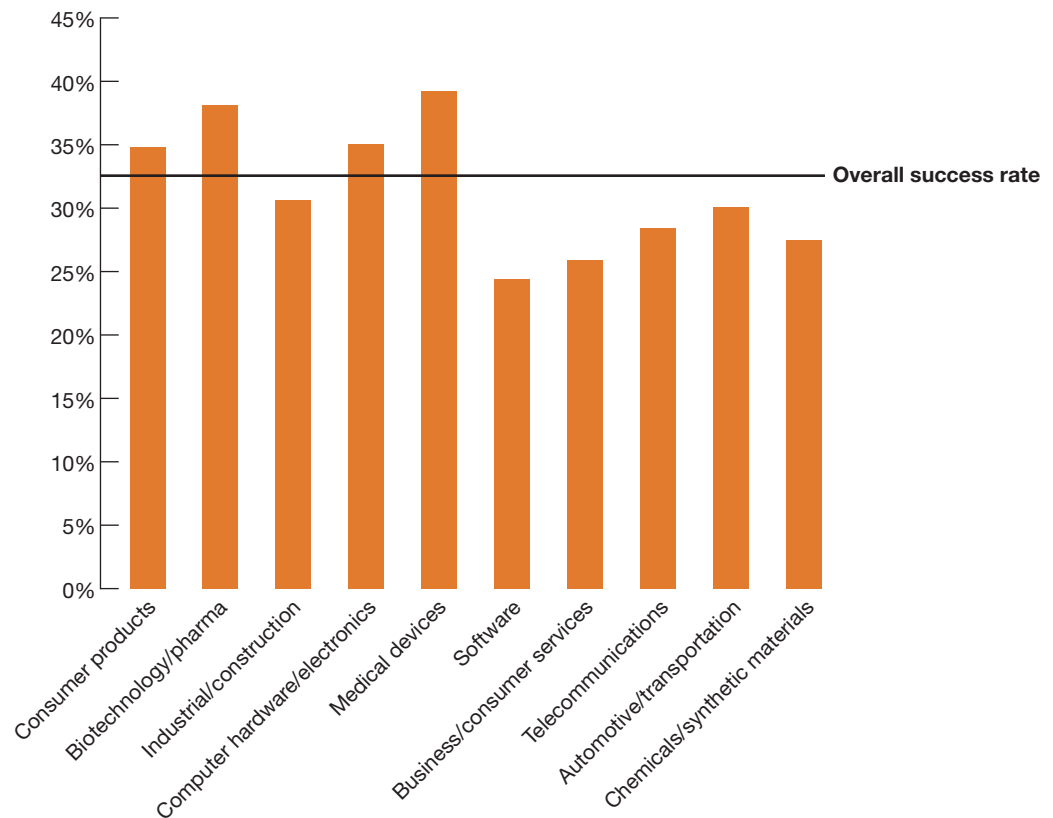
The number of identified decisions is indicated within the respective column.

## Four of the top five industries see higher than average success rates

While the overall success rate (trial and summary judgment combined) for all industries during the period was approximately 33%, holders of patents related to the consumer products, biotechnology/pharmaceutical, medical devices and

computer hardware/electronics industries achieved success rates higher than the overall median. Chart 7c also demonstrates that success rates across industries are relatively consistent, deviating less than 10% from the 33% aggregate success rate for the study.

**Chart 7c. Patent holder success rates: top ten industries, 1995–2013**

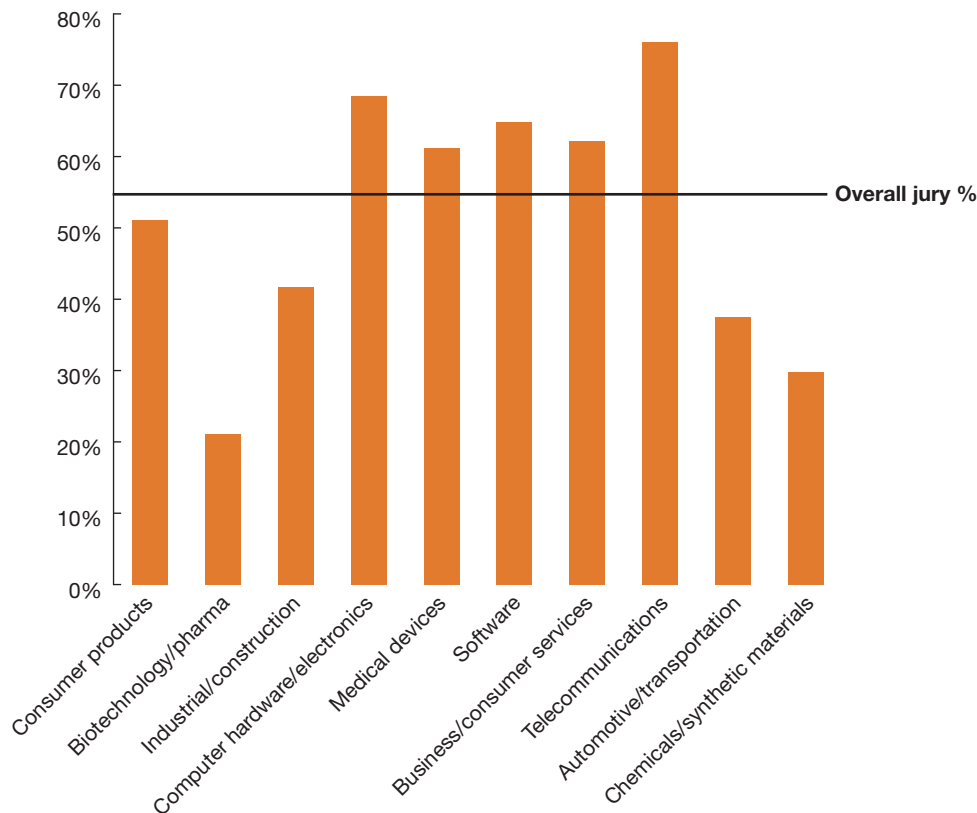


## Telecommunications and computer hardware/electronics lead in jury use

The use of jury trials varies widely by industry, as illustrated in Chart 7d. The wide disparity is highlighted by the difference in jury use between the biotechnology/pharmaceutical and telecommunications industries. As previously noted, the telecommunications industry also experienced the highest median damages award.

The biotechnology/pharmaceutical industry had a considerably lower use of jury trials than the other top-ten industries; this is partly due to the frequent incidence of ANDA-related litigations, which are tried primarily by the bench. Removing ANDA-related litigation from the biotechnology/pharmaceutical industry would increase its jury use percentage to 52%.

**Chart 7d. Use of jury trials: top ten industries, 1995–2013**





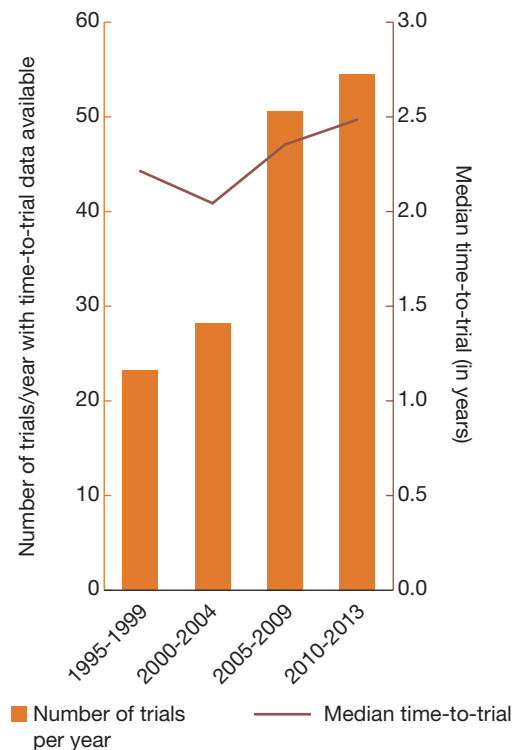
## Median time-to-trial: approximately 2.5 years

Overall, time-to-trial has remained relatively steady, at about 2.5 years, since 2005. An increase of about a half-year is evident since the shortest time-to-trial period of 2000–2004, when the median was just over two years, but the case volume was significantly lower.

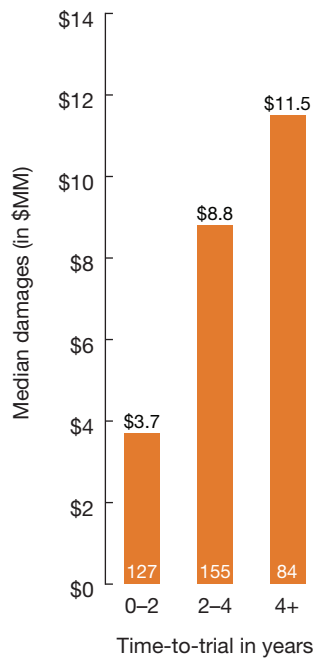
## Median damages rise with longer time-to-trial

Chart 8b displays the direct relationship between the median damages award and time-to-trial. Several factors might influence this relationship. Cases involving higher potential damages awards can be more complex and take a longer time to reach trial. A longer time-to-trial also provides a longer period over which infringing sales can occur, increasing the potential damages base.

**Chart 8a. Median time-to-trial**



**Chart 8b. Median damages based on  
time-to-trial: 1995–2013**



Median damages are adjusted for inflation to 2013 US dollars.

The number of identified decisions is indicated within the respective column.

## Certain districts are more favorable to patent holders

Certain jurisdictions (particularly Virginia Eastern, Delaware, and Texas Eastern) continue to be more favorable venues for patent holders, with shorter time-to-trial, higher success rates, and greater median damages awards. Chart 9a presents the top 15 most active districts and their categorical rankings for each of the three key metrics, with the overall ranking based on a simple average of the three.

Relative to last year's study, the top four districts in terms of favorability to patent holders remain the same. Florida's Middle District rounds out the top five districts in this year's study (despite having the lowest median damages), replacing New Jersey, which dropped to seventh place.

**Chart 9a. District court rankings: 1995–2013**

Overall rank	District	Median time-to-trial (in years)	Rank	Overall success rate	Rank	Median damages awarded	Rank
1	Virginia Eastern	0.97	1	32%	6	\$37,334,272	2
2	Delaware	1.97	4	41%	4	\$19,105,617	3
3	Texas Eastern	2.21	6	57%	1	\$9,101,683	5
4	Wisconsin Western	1.08	2	31%	7	\$4,901,798	9
5	Florida Middle	1.80	3	54%	2	\$322,927	15
6	Texas Southern	2.01	5	23%	14	\$57,046,837	1
7	New Jersey	2.71	12	34%	5	\$16,584,682	4
8	Texas Northern	2.42	8	46%	3	\$3,643,782	11
9	California Central	2.23	7	29%	10	\$3,139,412	12
10	California Northern	2.44	9	23%	15	\$8,425,257	6
11	New York Southern	2.88	13	28%	11	\$5,581,695	8
12	Massachusetts	3.58	14	31%	8	\$4,237,438	10
13	Minnesota	2.66	11	29%	9	\$1,648,192	13
14	Illinois Northern	3.67	15	26%	12	\$5,978,390	7
15	Florida Southern	2.50	10	25%	13	\$380,052	14
	<b>Overall (all decisions identified)</b>	<b>2.31</b>		<b>33%</b>		<b>\$5,493,971</b>	

Median damages are adjusted for inflation to 2013 US dollars. The rankings for these courts are based on their relative ranking for each of the three statistical measures, equally weighted.

## NPE decisions are concentrated in certain districts

Cases with NPEs as patent holders were concentrated in a relatively small number of districts: the top five districts (out of 94 total) with the most identified decisions accounted for 41% of all identified NPE cases—and the top ten districts accounted for 57%. The percentage of NPE decisions in the most active NPE districts continues to increase, indicating continued concentration of NPE cases in certain courts.

The districts with the most identified NPE decisions, however, present a dichotomy in relative NPE success rates. Texas Eastern, with the most identified NPE cases by far, also has one of the highest success rates, almost double the NPE average. However, the next three districts yielded success rates roughly 10% below the overall NPE average of 25%.

**Chart 9b. District courts with most identified decisions with NPE as patent holder: 1995–2013**

District	Decisions involving NPEs	Total identified decisions	NPE % of total decisions	NPE success rate
Texas Eastern	50	136	37%	46%
Illinois Northern	33	136	24%	15%
New York Southern	31	132	23%	13%
California Northern	28	149	19%	14%
Delaware	23	196	12%	35%
California Central	15	84	18%	33%
Massachusetts	14	77	18%	36%
Florida Southern	13	40	33%	15%
Pennsylvania Eastern	11	35	31%	18%
Minnesota	10	48	21%	40%
Texas Southern	10	47	21%	10%
DC	10	23	43%	0%
Texas Northern	9	35	26%	56%
US Court of Federal Claims	8	20	40%	13%
Virginia Eastern	8	47	17%	25%
Florida Middle	8	35	23%	63%
Colorado	7	24	29%	43%
Pennsylvania Western	6	17	35%	67%
Maryland	6	17	35%	0%
Michigan Eastern	6	39	15%	0%
New Jersey	6	87	7%	17%
<b>All identified decisions</b>	<b>403</b>	<b>1,985</b>	<b>20%</b>	<b>25%</b>

Includes districts with more than 5 identified decisions involving an NPE as the patent holder.

## Practicing entities and NPEs by the numbers

Chart 10 summarizes critical patent litigation statistics for practicing entities and NPEs. The median damage award for NPEs was significantly higher than that for

practicing entities, while practicing entities enjoyed higher success rates and slightly shorter median time-to-trial.

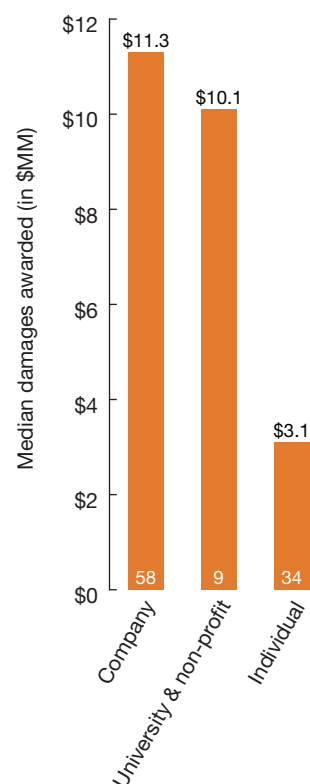
**Chart 10. Key statistics for practicing and nonpracticing entities: 1995–2013**

	Median time-to-trial (in years)	Overall success rate	Median damages awarded
Nonpracticing Entity	2.55	25%	\$8,755,381
Practicing Entity	2.28	35%	\$5,306,408

Median damages are adjusted for inflation to 2013 US dollars.

## Median damages awards vary significantly among NPE types

**Chart 11a. Patent holder median damages awarded by NPE type: 1995–2013**



Charts 11a and 11b represent an analysis of NPE litigation by NPE type: (1) companies/for-profit organizations, (2) universities/non-profit organizations, and (3) individuals/inventors. Chart 11a illustrates that the median damages award for NPEs that are companies/for-profit organizations is only slightly higher than that for university/non-profit, but significantly higher than that for individual NPEs.

Median damages are adjusted for inflation to 2013 US dollars.

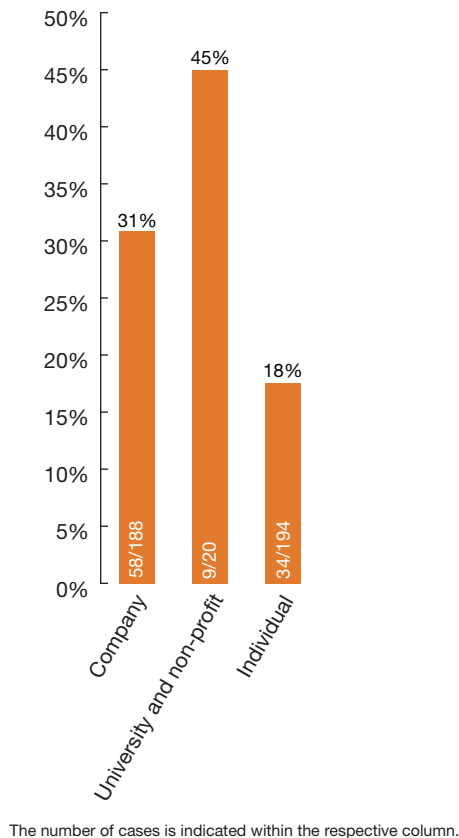
The number of cases is indicated within the respective column.



## Individual NPEs experience lower success rates

While company NPEs are awarded higher damages, university/non-profit NPEs have by far the highest success rate among NPEs. Individual NPEs lag far behind, as shown in Chart 11b.

**Chart 11b. Patent holder success rates by NPE type: 1995–2013**



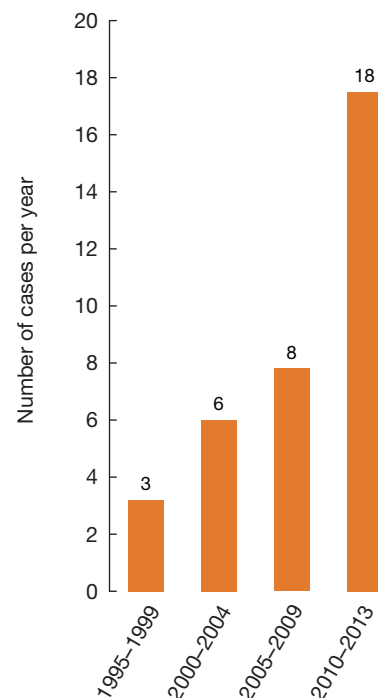
## ANDA litigation continues to trend upward

Abbreviated New Drug Application (ANDA) litigation transpires when a generic drug manufacturer files with the Food and Drug Administration (FDA) an ANDA paragraph IV certification challenging a brand drug manufacturer's patent(s).

While damages are rarely awarded—because the alleged infringer does not generally make any infringing sales prior to the filing of the litigation—the economic ramifications of ANDA litigation are significant due to the potential for lost patent protection of highly profitable brand-name drugs. In addition, the first generic filer of a successful patent challenge is awarded a period of exclusivity in the generic drug market.

Chart 12a shows that the number of court decisions from ANDA litigation has grown substantially, consistent with the upward trend of overall patent litigation identified in Chart 1.

**Chart 12a. ANDA cases: 1995–2013**

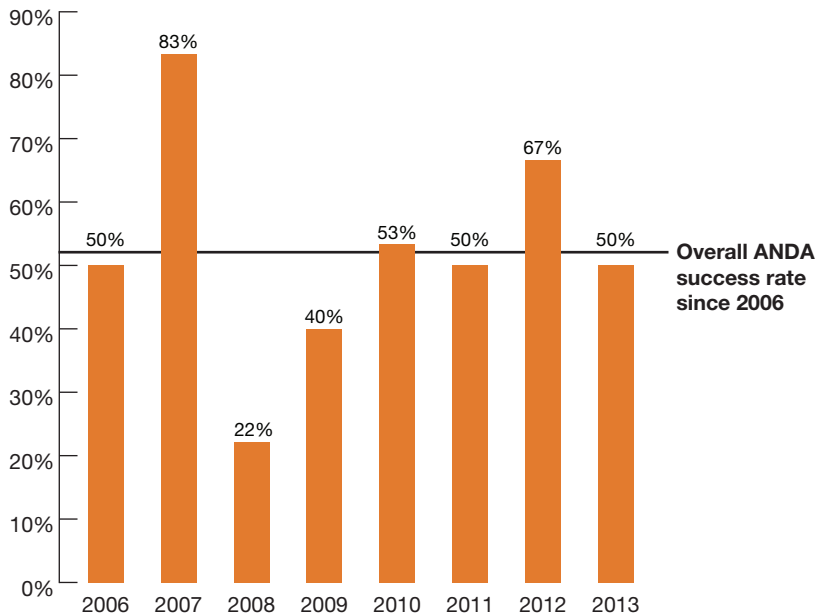


## Historical ANDA success rates have varied significantly

Chart 12b reflects ANDA success rates, which we define as the patent holder's (the brand-name drug manufacturer's) success. Since 2006, ANDA litigation success rates have ranged from a low of 22% to a high of 83%. However, the sample size in the

earlier years was low, possibly explaining the wide swings in success rates. Because the majority of ANDA litigations continue to end in settlement, the adjudicated case sample size remains modest.

**Chart 12b. ANDA success rate**



## Statistics by judge for top ten most active judges

We also captured information on the presiding judge in identified patent litigation disputes. This table represents statistics for the currently-active judges with the most identified decisions from 1995-2013. Overwhelmingly, the median damages awarded in cases presided over by many of these judges significantly exceeds the overall

median damages awarded from 1995 to 2013, possibly indicating that larger disputes tend to be handled by more experienced judges. Interestingly, patent holder success rates for the top seven judges also tend to exceed the overall success rate, particularly in the Eastern District of Texas.

**Chart 13. Top ten most active district court judges: 1995–2013**

Rank	Judge last name	Judge first name	District court	Identified decisions	Identified trial decisions	Median damages	Overall success rate	Time to trial	Percent of decisions that are SJs
1	Robinson	Sue	Delaware	65	41	\$21,555,613	38%	1.88	37%
2	Sleet	Gregory	Delaware	29	25	\$21,284,375	55%	1.88	10%
3	Davis	Leonard	Texas Eastern	27	20	\$9,752,865	63%	2.29	26%
4	Stark	Leonard	Delaware	17	7	\$13,083,385	41%	2.12	41%
5	Wilken	Claudia	California Northern	16	7	\$9,675,832	38%	2.20	56%
6	Clark	Ron	Texas Eastern	15	13	\$6,841,200	73%	1.79	13%
7	Huff	Marilyn	California Southern	11	6	\$25,419,854	36%	2.07	45%
8	Young	William	Massachusetts	11	4	\$233,159	18%	1.72	64%
9	Darrah	John	Illinois Northern	11	3	\$10,139,484	9%	3.50	73%
10	Alsup	William	California Northern	10	4	\$18,807,241	10%	1.61	60%

## Patent litigation appeals, 2007–2011

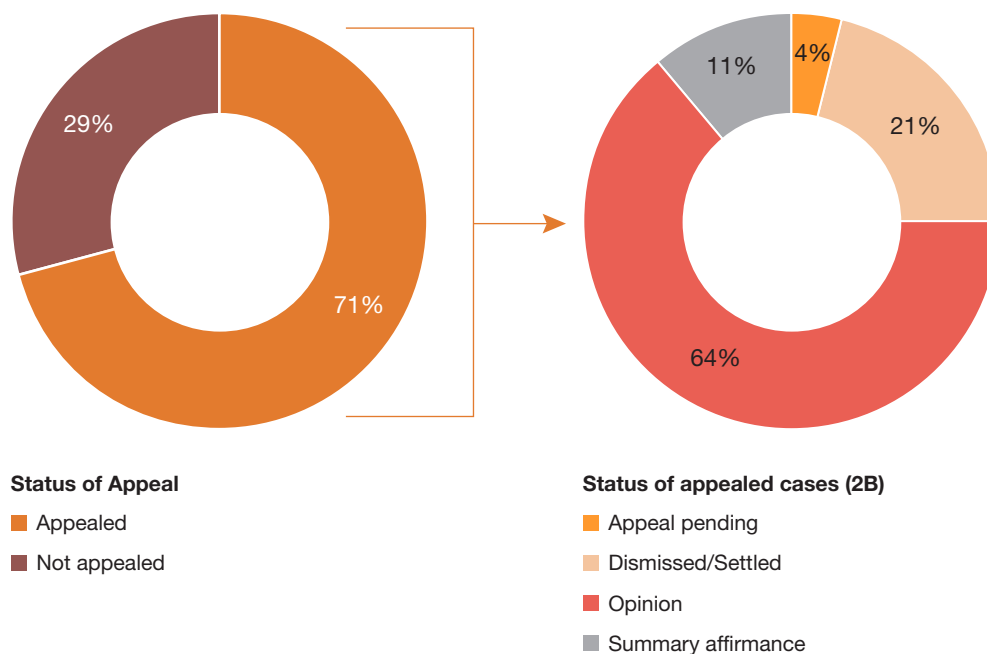
*New to this year's study is an analysis of patent litigation appellate outcomes from the Federal Circuit. We identified cases previously captured in our database where a trial occurred at district court and a resulting decision was made by the bench or jury. We then researched the appellate status of such cases over a recent five-year period. Our analysis began with district court trial decisions that occurred between 2007 and 2011, so that the majority of cases reviewed had reached a conclusion at the Federal Circuit by the time of publication.*

### Summary appellate statistics

As shown in Chart 14a, appeals were lodged in over 70% of reviewed cases that reached an initial conclusion at the district court. While about 4% of appeals remain pending and 21% of appeals were dismissed or settled, approximately three-fourths of all appeals reached a conclusion on appeal,

with the Federal Circuit issuing a written opinion for approximately 64% of cases reviewed. Another 11% resulted in summary affirmances, where the Federal Circuit, allowed the district court decision to stand, without further explanation or discussion.

**Chart 14a. Status of district court cases 2007–2011**





## Which party appeals more often? It depends on your perspective...

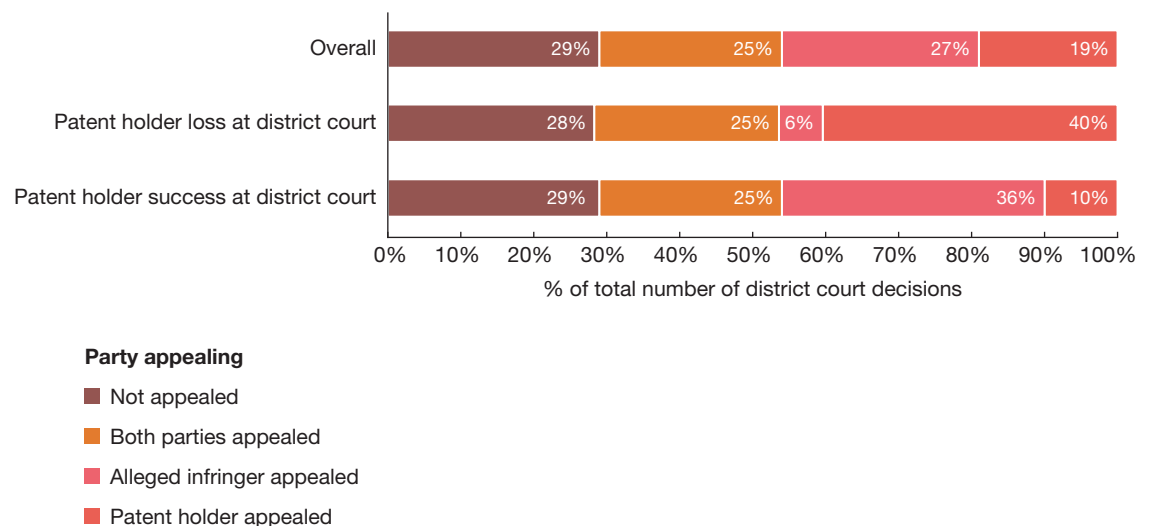
As illustrated in Chart 14b, the alleged infringer appeals more often *overall* (27% individually) than patent holders (19% individually). This reflects the fact that patent holders win more often at the district court (69% trial win rate in 2007–2011), and thus, have less reason to appeal. As would be expected, the “loser” of the district court case appeals more often, whether the loser is the patent holder or the alleged infringer.

Adding this perspective to the appellate equation—that is, who won and who lost at *district court*—gives a more nuanced view of who appeals most often. Chart 14b shows

that losing patent holders appeal more often (40% individually) than losing alleged infringers (36% individually).

Further, 10% of successful patent holders and 6% of successful alleged infringers appeal individually. This demonstrates that even a relatively favorable outcome at the district court can leave a party not fully satisfied, whether on issues regarding the patent claims themselves, product and territory coverage, damages awarded, pre-/post-judgment interest, enhanced damages, or permanent injunction, among other potential issues.

**Chart 14b. Appeals after district court decisions 2007–2011**

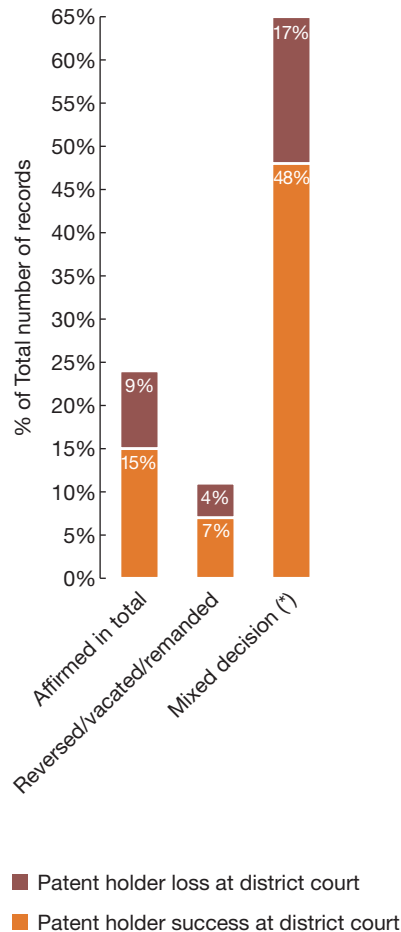


## Appellate outcomes: a mixed bag

Chart 14c shows that in total, 65% of appealed patent infringement cases were mixed decisions; that is, some aspects of the appeal were affirmed while others were reversed, remanded or vacated. Twenty-four percent of cases were affirmed in total and 11% were entirely reversed, vacated and/or remanded.

Furthermore, the likelihood of any given appeal outcome does not materially differ depending on which party won or lost the initial district court case. Regardless of which party appeals, mixed decisions are 2-3 times more likely than total affirmances, and 4-7 times more likely than decisions that are entirely reversed, remanded or vacated.

**Chart 14c. Appeal outcome by success of patent holder in district court 2007–2011**



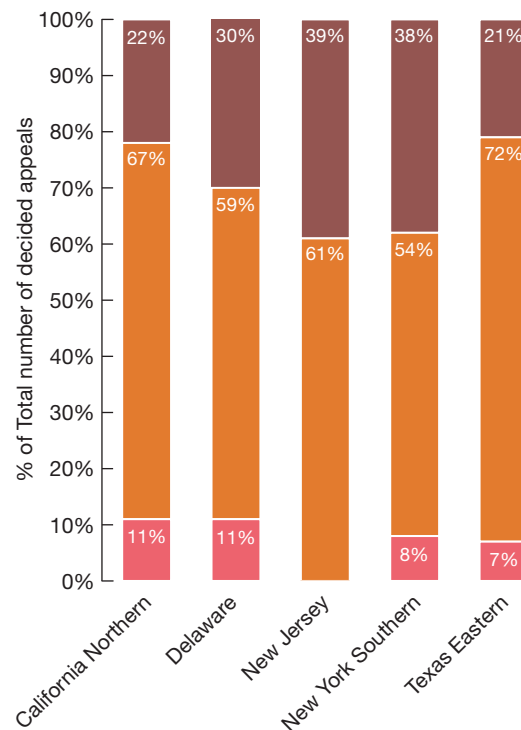
(\*) Mixed decisions are decisions in which the appeal was both affirmed in part and reversed, vacated or remanded in part.

## Results can vary by originating district

Chart 14d shows the distribution of appeal outcomes among the five district courts with the most appeals during the period reviewed. The Texas Eastern and California Northern districts align with the overall percentage of cases affirmed in total, in the low 20s, but a considerably higher rate of affirmances in total

is seen in the New Jersey and New York Southern districts. Rates of cases reversed, remanded and vacated in total were generally consistent with the overall 11% finding, with outlier observation in the New Jersey district, where no matters were completely overturned.

**Chart 14d. Appeal outcomes from top 5 district courts 2007–2011**



- Affirmed in total
- Mixed decision (\*)
- Reversed/vacated/remanded

(\*) Mixed decisions are decisions in which the appeal was both affirmed in part and reversed, vacated or remanded in part.

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## Our methodology

*To study the trends related to patent decisions, PwC identified final decisions at summary judgment and trial recorded in two Westlaw databases, US District Court Cases (DCT) and Combined Jury Verdicts and Settlements (JV-ALL), as well as in corresponding Public Access to Court Electronic Records (PACER) system records.*

The study identified 1,985 district court patent decisions issued since 1995. Definitions for important terms used throughout the study are listed here:

- **Cases decided at summary judgment** include those district court patent infringement cases where a judge has issued a dispositive opinion regarding invalidity and/or infringement at summary judgment.
- **Cases decided at trial** include those district court patent infringement cases where a decision was rendered by a judge or jury after trial.
- **A success** includes instances where a liability decision was made in favor of the patent holder.
- **Time-to-trial** is calculated from the complaint date to the first day of either the bench or jury trial for each case.
- **A nonpracticing entity (NPE)** is defined as an entity that does not have the capability to design, manufacture, or distribute products with features protected by the patent.



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## ***Our authors***

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