

IN THE  
**Supreme Court of the United States**

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ALICE CORPORATION PTY. LTD.,

*Petitioner,*

v.

CLS BANK INTERNATIONAL AND CLS SERVICES LTD.,

*Respondent.*

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ON WRIT OF CERTIORARI  
TO THE UNITED STATES COURT OF APPEALS  
FOR THE FEDERAL CIRCUIT

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BRIEF OF PUBLIC KNOWLEDGE  
AND THE APPLICATION DEVELOPERS ALLIANCE  
AS *AMICI CURIAE* IN SUPPORT OF RESPONDENT

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JACK LERNER  
USC INTELLECTUAL  
PROPERTY AND  
TECHNOLOGY LAW CLINIC  
University of Southern  
California Gould School of  
Law  
699 Exposition Blvd, Room 425  
Los Angeles, CA 90089  
(213) 740-2537  
iptlcsct@law.usc.edu

CHARLES DUAN  
*Counsel of Record*  
PUBLIC KNOWLEDGE  
1818 N St NW, Suite 410  
Washington, DC 20036  
(202) 861-0020  
cduan@publicknowledge.org

*Counsel for Amici Curiae*

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TABLE OF CONTENTS

TABLE OF AUTHORITIES . . . . .	(ii)
INTEREST OF <i>AMICI CURIAE</i> . . . . .	1
SUMMARY OF ARGUMENT . . . . .	3
ARGUMENT . . . . .	4
I. The Claims at Issue Are Ineligible for Patent- ing Because They Preempt an Abstract Idea . . .	4
A. The Claims Can Be Implemented in Just Seven Lines of Computer Code . . . . .	5
B. The Claims Cover All Computer Imple- mentations of an Abstract Idea . . . . .	9
C. Claims that Preempt Substantially All Computer Implementations of an Ab- stract Idea Should Be Ineligible . . . . .	12
II. This Court Should Clarify the Law of Subject Matter Eligibility . . . . .	14
A. Lower Courts Should Not Rely on Speci- fication Details to Evaluate Eligibility . . .	15
B. System Claims Are Not More Patent- Eligible than Method Claims . . . . .	18
C. Recitation of Details of a General-Purpose Computer Does Not Affect Eligibility . . .	21
CONCLUSION . . . . .	23
APPENDIX A: Implementation of Claim 26 of the '375 Patent in Seven Lines of Computer Code . . . .	1a
APPENDIX B: Claim 26 of the '375 Patent . . . . .	8a

## TABLE OF AUTHORITIES

## CASES

<i>Accenture Global Servs., GMBH v. Guidewire Software, Inc.</i> , 728 F.3d 1336 (Fed. Cir. 2013) . . . . .	16
<i>Aro Mfg. Co. v. Convertible Top Replacement Co.</i> , 365 U.S. 336 (1961) . . . . .	15
<i>Bancorp Servs., LLC v. Sun Life Assurance Co. of Can.</i> , 687 F.3d 1266 (Fed. Cir. 2012) . . . . .	19
<i>Bilski v. Kappos</i> , 130 S. Ct. 3218 (2010) . . . . .	<i>passim</i>
<i>CLS Bank Int’l v. Alice Corp.</i> , 717 F.3d 1269 (Fed. Cir. 2013) . . . . .	<i>passim</i>
<i>CyberSource Corp. v. Retail Decisions, Inc.</i> , 654 F.3d 1366 (Fed. Cir. 2011) . . . . .	19
<i>Diamond v. Diehr</i> , 450 U.S. 175 (1981) . . . . .	4, 8, 13–14
<i>Eon-Net LP v. Flagstar Bancorp.</i> , 653 F.3d 1314 (Fed. Cir. 2011) . . . . .	2
<i>Funk Bros. Seed Co. v. Kalo Inoculant Co.</i> , 333 U.S. 127 (1948) . . . . .	12
<i>Gottschalk v. Benson</i> , 409 U.S. 63 (1972) . . . . .	9, 12, 18
<i>Graver Tank &amp; Mfg. Co. v. Linde Air Prods. Co.</i> , 336 U.S. 271 (1949) . . . . .	15
<i>In re Alappat</i> , 33 F.3d 1526 (Fed. Cir. 1994) . . . . .	19, 21–22

(iii)

<i>In re Johnson</i> , 589 F.2d 1070 (C.C.P.A. 1978) . . . .	19
<i>In re Meyer</i> , 688 F.2d 789 (C.C.P.A. 1982) . . . . .	10
<i>Keystone Bridge Co. v. Phoenix Iron Co.</i> , 95 U.S. 274 (1877) . . . . .	15
<i>Le Roy v. Tatham</i> , 55 U.S. (14 How.) 156 (1853) . . . .	9
<i>Mayo Collaborative Servs. v. Prometheus Labs., Inc.</i> , 132 S. Ct. 1289 (2012) . . . . .	<i>passim</i>
<i>Microsoft Corp. v. i4i Ltd. P'ship</i> , 131 S. Ct. 2238 (2011) . . . . .	1
<i>O'Reilly v. Morse</i> , 56 U.S. (15 How.) 62 (1853) . . . .	16
<i>Parker v. Flook</i> , 437 U.S. 584 (1978) . . . . .	<i>passim</i>
<i>Phillips v. AWH Corp.</i> , 415 F.3d 1303 (Fed. Cir. 2005) . . . . .	16
<i>Quanta Computer, Inc. v. LG Elecs. Corp.</i> , 553 U.S. 617 (2008) . . . . .	1
<i>Ultramercial, LLC v. Hulu, LLC</i> , 722 F.3d 1335 (Fed. Cir. 2013) . . . . .	17, 22
<i>White v. Dunbar</i> , 119 U.S. 47 (1886) . . . . .	15

**CONSTITUTIONAL PROVISIONS**

U.S. Const. art. 1, § 8, cl. 8 . . . . .	12
--	----

**STATUTES**

35 U.S.C. § 101 (2013) . . . . .	<i>passim</i>
35 U.S.C. § 112 (2013) . . . . .	15–16
Act of July 8, 1870, ch. 230, 16 Stat. 198 . . . . .	15

**OTHER SOURCES**

Alice Corp. Pty. Ltd.’s Renewed Cross-Motion for Partial Summary Judgment as to Subject Matter Eligibility, <i>CLS Bank Int’l v. Alice Corp.</i> , 768 F. Supp. 2d 221 (Dist. D.C. Sept. 22, 2010) (No. 1:07-cv-974) . . . . .	3a
Brief of Amicus Curiae Public Knowledge in Support of Petitioner, <i>WildTangent, Inc. v. Ultramercial, LLC</i> , No. 13-255 (U.S. Sept. 23, 2013) . . . . .	17
Brief of Application Developers Alliance as <i>Amicus Curiae</i> in Support of Petitioner for Certiorari, <i>WildTangent, Inc. v. Ultramercial, LLC</i> , No. 13-255 (U.S. Sept. 23, 2013) . . . . .	2
Matt Browning, Note, <i>Now You See Them, Now You Don’t: The PTO’s Rules on Claims and Continuations</i> , 23 Berkeley Tech. L.J. 247 (2008) . . . . .	17
Erik Brynjolfsson & Adam Saunders, <i>Wired for Innovation: How Information Technology Is Reshaping the Economy</i> (2010) . . . . .	12

Taylor Buley, <i>World's Youngest iPhone App Developer?</i> , Forbes, Mar. 30, 2010, <a href="http://www.forbes.com/2010/03/30/apple-iphone-developer-technology-teenager.html">http://www.forbes.com/2010/03/30/apple-iphone-developer-technology-teenager.html</a> . . . . .	6
Colleen V. Chien, New Am. Found., <i>Patent Assertion and Startup Innovation</i> (2013), <a href="http://www.newamerica.net/publications/policy/patent_assertion_and_startup_innovation">http://www.newamerica.net/publications/policy/patent_assertion_and_startup_innovation</a> . . . . .	2
Computation Ctr., Dartmouth Coll., <i>BASIC</i> (1964), available at <a href="http://bitsavers.trailing-edge.com/pdf/dartmouth/BASIC_Oct64.pdf">http://bitsavers.trailing-edge.com/pdf/dartmouth/BASIC_Oct64.pdf</a> . . . . .	1a
Fed. Trade Comm'n, <i>The Evolving IP Marketplace: Aligning Patent Notice and Remedies with Competition</i> (2011) . . . . .	19
Michael Mandel, <i>Where the Jobs Are: The App Economy</i> (2012) . . . . .	2
Andreas Pappas, VisionMobile Ltd., <i>App Economy Forecasts 2013–2016</i> (2013) . . . . .	2
Supreme Court of the United States (last updated Feb. 21, 2014), <a href="http://www.supremecourt.gov/">http://www.supremecourt.gov/</a> . . . . .	6
Alan M. Turing, <i>On Computable Numbers, with an Application to the Entscheidungsproblem</i> , 42 Proc. London Mathematical Soc'y 230 (1936) . . . . .	10
U.S. Gov't Accountability Office, <i>Intellectual Property: Assessing Factors that Affect Patent Infringement Litigation Could Help Improve Patent Quality</i> (2013) . . . . .	14

U.S. Patent No. 7,725,375 (filed June 27,  
2005) . . . . . 5–8, 3a, 8a

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Patent Examining Procedure* (8th ed., 9th rev.  
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## INTEREST OF *AMICI CURIAE*

Public Knowledge is a non-profit organization that is dedicated to preserving the openness of the Internet and the public's access to knowledge; promoting creativity through balanced intellectual property rights; and upholding and protecting the rights of consumers to use innovative technology lawfully. As part of this mission, Public Knowledge advocates on behalf of the public interest for a balanced patent system, particularly with respect to new and emerging technologies.<sup>1</sup>

Public Knowledge has previously served as *amicus* in key patent cases. *E.g.*, *Microsoft Corp. v. i4i Ltd. P'ship*, 131 S. Ct. 2238 (2011); *Bilski v. Kappos*, 130 S. Ct. 3218 (2010); *Quanta Computer, Inc. v. LG Elecs. Corp.*, 553 U.S. 617 (2008).

The Application Developers Alliance (ADA) is a non-profit industry association comprising more than 30,000 individual software developers and more than 150 companies who design and build applications ("apps") for consumers to use on mobile devices like smartphones and tablets. Apps run on software platforms, including Google's Android, Apple's iOS, and Facebook, and are sold or distributed through virtual stores like Google's Play Store. ADA is dedicated to meeting the needs of app developers as creators, innovators, and entrepreneurs, by delivering essential information and resources and

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<sup>1</sup>Per Supreme Court Rule 37(6), no counsel for a party authored this brief in whole or in part, and no counsel or party made a monetary contribution intended to fund the preparation or submission of the brief. No person or entity, other than *amici*, their members, or their counsel, made a monetary contribution to the preparation or submission of this brief. Per Rule 37(3)(a), consent has been granted for the filing of this brief, as indicated by the blanket consents from counsel for petitioner and counsel for respondents docketed December 11, 2013.



by advocating for public policies that promote the app ecosystem.

App developers are both central to innovation and vulnerable to the patent laws that surround innovation. By innovating rapidly and cheaply, app developers represent an increasingly robust force in the economy. The app economy is now globally valued at over \$53 billion and has created approximately 466,000 jobs in the United States since 2007.<sup>2</sup> But many app developers, including ADA members, are struggling as a result of abusive patent assertion, especially that originating from patent assertion entities (PAEs). Such entities often assert overly broad patents, propounding unfounded infringement allegations and aggressive litigation threats, which deeply chill innovation.<sup>3</sup>

Inconsistency and uncertainty in areas of patent law, such as subject matter eligibility, are enabling factors in PAE litigation, as they enable aggressive patent assertors to take improper, overbroad positions. *E.g.*, *Eon-Net LP v. Flagstar Bancorp*, 653 F.3d 1314, 1326–28 (Fed. Cir. 2011). This forces many app developers to conclude that innovation is not worth the expensive baggage of defending against such claims, resulting in delays to and deficiencies in app development and overall innovation.<sup>4</sup> Thus, ADA and its members have a strong interest in this Court providing clarity in this area of patent law.

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<sup>2</sup>Andreas Pappas, VisionMobile Ltd., *App Economy Forecasts 2013–2016* (2013); Michael Mandel, *Where the Jobs Are: The App Economy* 13 (2012).

<sup>3</sup>Brief of Application Developers Alliance as *Amicus Curiae* in Support of Petitioner for Certiorari, *WildTangent, Inc. v. Ultramercial, LLC*, No. 13-255 (U.S. Sept. 23, 2013).

<sup>4</sup>*See, e.g.*, Colleen V. Chien, New Am. Found., *Patent Assertion and Startup Innovation* 17 (2013), [http://www.newamerica.net/publications/policy/patent\\_assertion\\_and\\_startup\\_innovation](http://www.newamerica.net/publications/policy/patent_assertion_and_startup_innovation).

## SUMMARY OF ARGUMENT

Abstract ideas are not eligible for patenting because, as this Court has steadfastly maintained, certain fundamental subject matter must be fixed in the public domain, so that patents may serve their constitutional mandate to “promote the Progress of Science and the useful Arts.” Being the basic tools of innovation, abstract ideas must remain available to the public; to do otherwise would impede innovation more than promote it.

This case tests how far a patent may encroach on that valuable domain reserved to innovators, creators, and the public. Petitioner holds patents to computer technology. The patent claims at issue are lengthy and detailed, some over two hundred words long. But those claims actually cover very simple ideas; the verbose language is a mere facade masking basic concepts.

To demonstrate this, *amici* have implemented one of those 200-word claims—in just 7 lines of computer code.

This computer program shows that the patent claims are directed to nothing more than an abstract idea implemented on a general-purpose computer, which should not be patent-eligible. To hold otherwise would contravene this Court’s precedent and undermine the rationale for unpatentability of abstract ideas. Such “abstract-idea-plus-computer” patents would be effective monopolies on the basic tools of innovation, a result that this Court has adamantly rejected.

To prevent further errors of this sort, *amici* identify three points of clarification on the law of subject matter eligibility, and urge this Court to enunciate these specific points. Doing so not only will correct the judgment below and guide the lower courts, but also will ensure that those valuable basic tools of innovation remain available to all.

## ARGUMENT

This case presents the recurrent question of what constitutes patentable subject matter, particularly with regard to the fields of computer software and business methods. *Amici* address two aspects of this question as they relate to the present case. First, *amici* show that the patented claims at issue are directed to ineligible abstract ideas, by implementing one of those claims in seven lines of computer code. Figure 1 *infra* p. 7. Second, in view of the fractured opinions of the Federal Circuit below, *amici* suggest three principles for guiding the lower courts in deciding future cases.

### I. THE CLAIMS AT ISSUE ARE INELIGIBLE FOR PATENTING BECAUSE THEY PREEMPT AN ABSTRACT IDEA

The question presented is whether Petitioner’s claims are directed to patent-eligible subject matter. Generally, “any new and useful process, machine, manufacture, or composition of matter” is eligible for patenting. 35 U.S.C. § 101 (2013). But three particular fields are nevertheless ineligible: laws of nature, physical phenomena, and abstract ideas. *E.g.*, *Mayo Collaborative Servs. v. Prometheus Labs., Inc.*, 132 S. Ct. 1289, 1293 (2012) (quoting *Diamond v. Diehr*, 450 U.S. 175, 185 (1981)).

The claims of these patents, as with many patents in the computer technology field, are full of complex technical language. But these claims actually present very basic concepts—so basic, in fact, that *amici* have prepared a seven-line computer program that implements all the features of one of the most complex claims. The program, shown in Figure 1 on page 7, demonstrates that the claims

recite not specialized, technical systems, but rather a simple algorithm that reduces to nothing more than an abstract idea run on a computer. Because mere application of a general-purpose computer should not render an otherwise abstract idea patentable, *amici* urge this Court to find the present claims ineligible.

#### A. THE CLAIMS CAN BE IMPLEMENTED IN JUST SEVEN LINES OF COMPUTER CODE

Much of the disagreement in the lower court's fractured decision stemmed from a dispute over the nature of the patent claims at issue. Judge Lourie, writing for five judges, found the claims to recite "a handful of computer components in generic, functional terms that would encompass any device" and unduly preempt an abstract idea. *See CLS Bank Int'l v. Alice Corp.*, 717 F.3d 1269, 1290 (Fed. Cir. 2013) (en banc). Judge Rader, writing for four judges, found those same claims narrowly tailored, "limited to an implementation that includes at least four separate structural components" rendering the claim patent-eligible. *See id.* at 1307.

The claims at issue do use technical-sounding, complex language, making them appear to be directed to a narrowly tailored invention. One of the claims at issue recites, among other things, a "communications controller," a "data storage unit," and an "instruction being an irrevocable, time invariant obligation." U.S. Patent No. 7,725,375 claim 26, cols. 66–67 (filed June 27, 2005).<sup>5</sup>

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<sup>5</sup>Claim 26 of the '375 Patent is considered in this brief because it was found patentable by the greatest number of judges of the lower court decision. *See CLS Bank*, 717 F.3d at 1309 (Rader, Linn, Moore & O'Malley, JJ.); *id.* at 1327 (Newman, J.). *Amici* could have easily used any other claim at issue. For reference, Claim 26 is reprinted in Appendix B *infra* p. 8a.

But beneath this veneer of technical language is nothing more than a very simple, basic idea. As a demonstration, the computer program shown in Figure 1 on the opposite page implements all the features of Claim 26 of the '375 Patent. A complete explanation of the working of this program as it relates to Claim 26 of the '375 Patent is presented in Appendix A *infra* p. 1a.

As this Court will observe, the computer program is only seven lines long, indicating that the verbose language of the claims does not in fact demand specific, particular implementations but rather expansively preempts all uses of a simple, basic idea. Compared to ordinary computer programming, a seven-line computer program is remarkably simple:

- A single page of the Supreme Court's website is 926 lines long, including 145 lines of computer code.<sup>6</sup>
- A fourteen-year-old wrote an iPhone app with over 11,000 lines of code.<sup>7</sup>
- The computer program that formatted the citations and table of authorities of this brief is 7,939 lines long.<sup>8</sup>

Certain judges below were misled by the language of the claims and the patent. Judge Rader believed that Claim 26 involved “a complex problem” that could only be solved with a specialized system with “at least four separate structural components.” *CLS Bank*, 717

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<sup>6</sup>*Supreme Court of the United States* (last updated Feb. 21, 2014), <http://www.supremecourt.gov/>.

<sup>7</sup>Taylor Buley, *World's Youngest iPhone App Developer?*, *Forbes*, Mar. 30, 2010, <http://www.forbes.com/2010/03/30/apple-iphone-developer-technology-teenager.html>.

<sup>8</sup>That program, which was written by counsel of record on this brief, is available at <https://github.com/charlesduan/alice-brief>.

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```
10 LET account1 = 200.00
20 LET account3 = 300.00
30 INPUT "Value to exchange for transaction"; exchange
40 IF account1 < exchange THEN PRINT "Inadequate
    value" : STOP
50 account1 = account1 - exchange
60 account3 = account3 + exchange
70 PRINT "Instruction to 1st institution: adjust 2nd
    account by "; -exchange
```

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Figure 1: Implementation of Claim 26 of the '375 Patent.

F.3d at 1307. He reviewed the “at least thirty two figures which provide detailed algorithms” to conclude that “[l]abeling this system claim an ‘abstract concept’ wrenches all meaning from those words.” *Id.* at 1309. Judge Moore likewise found a similarly-worded claim “limited to one that is configured to perform certain functions in a particular fashion” and, based on one of the flowcharts, suggested that the claims demanded a dizzyingly long and complex algorithm. *Id.* at 1318. And Judge Linn concluded that, while they may be based on an abstract idea, “the claims here are directed to very specific ways of doing that.” *Id.* at 1741.

The common thread among all of these opinions is an assumption that, given the heavy use of technical language in the specification and claims, only a specific, complex, technical computer program could infringe the patents. As the above seven-line computer program demonstrates, this assumption was in error.

The computer program devised by *amici* reads the claim as a whole, as this Court requires. *See Diamond v. Diehr*, 450 U.S. 175, 188 (1981). As the detailed appendix shows, every claim limitation is considered and implemented appropriately in the computer code, so it cannot be said that details or limitations have been stripped from the claim. *See Appendix A infra* p. 1a; *cf. Diehr*, 450 U.S. at 188 (“It is inappropriate to dissect the claims into old and new elements and then to ignore the presence of the old elements in the analysis.”). Furthermore, because the computer program is a functional, working implementation of the claim, it cannot be argued that it is a mere abstraction or generalization of the claims.

Thus, Claim 26 of the ’375 Patent is directed not to a complex system requiring specialized hardware, but rather to a basic, seven-line computer algorithm.

## B. THE CLAIMS COVER ALL COMPUTER IMPLEMENTATIONS OF AN ABSTRACT IDEA

The example computer program shows that the asserted claims, though lengthy and technical in appearance, are actually directed only to a very simple, basic computer procedure. In fact, the asserted claims would cover substantially all computer uses of the abstract idea of accounting by a third-party escrow.

This Court’s precedent lays out several guidelines for determining whether a claim is directed to an abstract idea. “A principle, in the abstract, is a fundamental truth; an original cause; a motive; these cannot be patented.” *Gottschalk v. Benson*, 409 U.S. 63, 67 (1972) (quoting *Le Roy v. Tatham*, 55 U.S. (14 How.) 156, 175 (1853)). Furthermore, “conventional or obvious” post-solution or pre-solution activity cannot render a claim eligible, because otherwise “a competent draftsman could attach some form of post-solution activity” to “transform an unpatentable principle into a patentable process.” *Parker v. Flook*, 437 U.S. 584, 590 (1978); *see also Mayo*, 132 S. Ct. at 1300 (holding “conventional steps, specified at a high level of generality,” to similarly not confer patent eligibility).

According to these guidelines, it is clear that every element of Claim 26 is (1) an inherent aspect of the abstract idea of third-party escrow, (2) a conventional component of a general-purpose computer, or (3) insignificant pre- or post-solution activity. The claim is therefore ineligible.

Elements<sup>9</sup> 1–2 of the claim describe ordinary components of a general-purpose computer. *See* Appendix A *infra* p. 2a. “Communications controller” and “first party

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<sup>9</sup>This brief references elements by numbers corresponding to the claim reprinted in the appendix. *See* Appendix B *infra* p. 8a.



device” are broad, general terms that encompass basic computer components for interacting with users.<sup>10</sup> Furthermore, these two components are only recited in conjunction with a step of receiving data, which as explained below is insignificant pre-solution activity.

Elements 3–5 describe basic record-keeping operations inherent in the idea of third-party escrow. Although the claim language verbosely describes a “data storage unit” with “information about a first account” and second account, the computer program demonstrates that these elements in fact require nothing more than recording two numbers in a computer. *See* Appendix A *infra* p. 3a. Certainly one would necessarily store such account information as part of an escrow service.<sup>11</sup>

Element 6 recites “a computer,” and as such only further describes a general-purpose computer.

Element 7 states that the computer must “receive a transaction.” This Court and others have repeatedly held that steps of obtaining data to be used for processing constitute insignificant pre-solution activity. *See, e.g., Mayo*, 132 S. Ct. at 1297–98 (treating as pre-solution activity a step of determining a level of metabolites prior to adjusting a treatment); *In re Meyer*, 688 F.2d 789, 794 (C.C.P.A. 1982) (“[A] data gathering step . . . cannot make an otherwise nonstatutory claim statutory.”). As such, this claim element does not contribute to the eligibility of the claim.

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<sup>10</sup>*See* Alan M. Turing, *On Computable Numbers, with an Application to the Entscheidungsproblem*, 42 Proc. London Mathematical Soc’y 230, 231–32 (1936) (describing the Turing machine, a fundamental model for all computers, as including a “paper tape” for communicating with the user).

<sup>11</sup>The “data storage unit” is an essential part of a general-purpose computer. *See* Turing, *supra*, at 231–32 (further explaining that the Turing machine includes an *m*-configuration for storing the state of the machine).

Element 8 describes two steps to be performed by the computer, both of which are inherent in the idea of third-party escrow. First, the computer is tasked with “ensuring that said first party and/or said second party have adequate value” in their accounts. The computer code shows that this amounts to nothing more than a comparison, checking whether an account balance is greater than an amount to be transferred out of that account. *See* Appendix A *infra* p. 5a. This is the basic purpose of a third-party escrow broker, who must ensure that the parties’ accounts contain sufficient funds.

Second, element 8 requires the computer to “electronically adjust said first account and said third account.” This operation, which amounts to only two lines of computer code, is inherent in any third-party escrow service, which must adjust account balance records to account for a transaction.

Element 9 instructs that the computer “generate an instruction to said first exchange institution and/or said second exchange institution to adjust said second account and/or said fourth account.” Despite its fifty-nine-word length, this element reduces to a single operation: producing a message describing the transaction just completed. *See* Appendix A *infra* p. 6a. This elementary output step is quintessential post-solution activity that should not contribute to the eligibility of the claim. *Cf. Flook*, 437 U.S. at 590 (treating as post-solution activity a step of adjusting an alarm limit following a computation).

Claim 26 is directed to nothing more than an abstract idea of third-party escrow, in conjunction with insignificant pre-solution and post-solution activity, and ordinary—albeit verbosely described—components of a general purpose computer. This Court should accordingly hold the claim, and all others like it, unpatentable.

### C. CLAIMS THAT PREEMPT SUBSTANTIALLY ALL COMPUTER IMPLEMENTATIONS OF AN AB- STRACT IDEA SHOULD BE INELIGIBLE

This Court should hold that the recitation of a general-purpose computer, as in the claims at issue here, does not render the claims eligible under § 101. This principle follows, first, from the goal of promoting innovation, a goal central to this Court’s § 101 doctrine, and second, from the rules of law this Court has derived from these principles.

The abstract ideas exception is grounded in the principle that certain fundamental subject matter must be fixed in the public domain, so that patents may serve their constitutional mandate to “promote the Progress of . . . the useful Arts.” U.S. Const. art. 1, § 8, cl. 8. Abstract ideas are unpatentable because they are “the basic tools of scientific and technological work,” *Benson*, 409 U.S. at 67, and must remain “free to all men and reserved exclusively to none,” *Bilski v. Kappos*, 130 S. Ct. 3218, 3218 (2010) (quoting *Funk Bros. Seed Co. v. Kalo Inoculant Co.*, 333 U.S. 127, 130 (1948)). “[M]onopolization of those tools through the grant of a patent might tend to impede innovation more than it would tend to promote it.” *Mayo*, 132 S. Ct. at 1293; *accord Bilski*, 130 S. Ct. at 3228 (patent law must avoid “granting monopolies over procedures that others would discover by independent, creative application of general principles”).

To permit patents on abstract ideas merely tied to general-purpose computers would eviscerate this principle. Computers are in widespread use today, and they are essential to innovation and a productive economy. *See, e.g.*, Erik Brynjolfsson & Adam Saunders, *Wired for Innovation: How Information Technology Is Reshaping the Economy* 4 (2010). Allowing patents on abstract

ideas merely tied to computers would relegate innovators to practicing abstract ideas on pencil and paper. Needless to say, given the general importance of computers, such an absurd state of affairs would cripple innovation. The basic tools of innovation must remain available to all, even when they are, or must be, implemented on general-purpose technologies.

As an analogy, consider a patent claim directed to long division performed with pencil and paper. Long division can, in theory, be practiced in the mind, but as a practical matter no ordinary person can do so. Thus, this pencil-and-paper patent would effectively make the abstract idea of long division unusable. Similarly, computers are capable of tasks that ordinary humans cannot perform unaided, even though those tasks may be abstract ideas. The public must be able to apply these abstract ideas to computers if those abstract ideas are to remain “free to all men and reserved exclusively to none.”<sup>12</sup>

In view of this important principle, this Court taken a practical, substantive approach to assessing the actual, effective scope of the claims. So, for example, “limiting the reach of the patent . . . to a particular technological use” does not render an abstract idea patentable. *Diehr*, 450 U.S. at 192 n.14. Nor does attachment of “post-solution activity,” *Flook*, 437 U.S. at 584, or recitation of “well-understood, routine, conventional activity previously engaged by researchers in the field,” *Mayo*, 132 S. Ct. at 1300.

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<sup>12</sup>Advances in computer hardware are of course themselves eligible for patent protection. See *CLS Bank*, 717 F.3d at 1292 (Lourie, J., concurring) (observing in dicta that computers *per se* are “surely patent-eligible machines”). Equally so would be advances in pencil technology. But these are distinguishable from mere annexation of abstract ideas to computers or pencils.

Based on this clear precedent, *amici* urge this Court to hold that attachment of a general-purpose computer or other common platform does not render an abstract idea patentable, in the present claims or otherwise. Implementing an abstract idea in the form of an algorithm on a general-purpose computer is a “well-understood, routine, conventional activity,” *id.*, that merely applies the algorithm in a “particular technological environment,” *Bilski*, 130 S. Ct. at 3230 (quoting *Diehr*, 450 U.S. at 191–92). Any “competent draftsman” could append elements of a general-purpose computer to any algorithm. This case is distinguishable from *Diehr*, which found patentable an algorithm intimately tied to a rubber-curing machine, *see* 450 U.S. at 187, because unlike a rubber-curing machine, a computer is able to perform *any* possible algorithm or mathematical procedure. Thus, in the claims at issue, the recitation of a general-purpose computer should not render the claims eligible under § 101.

## II. THIS COURT SHOULD CLARIFY THE LAW OF SUBJECT MATTER ELIGIBILITY

In past decisions, this Court has placed important limits on patentable subject matter to ensure that the building blocks of invention, including abstract ideas and laws of nature, remain available to all. *Mayo*, 132 S. Ct. at 1293. The flood of software patent litigation in recent years, and the ruthless exploitation of such litigation by patent assertion entities, have made these limitations more important than ever. U.S. Gov’t Accountability Office, *Intellectual Property: Assessing Factors that Affect Patent Infringement Litigation Could Help Improve Patent Quality* 13 (2013). However, recent Federal Circuit decisions have weakened these limitations and muddied the waters on patentable subject matter. *Id.*

This Court should now reaffirm the importance of § 101 limitations and reject the use of flawed analytical methods. In particular, this Court should instruct the lower courts not to rely on three red herrings: details in the specification, the statutory class of the claims, or the addition of details of a computer. By advising lower courts to consider eligibility carefully and thoroughly, this Court will help bring certainty to patent litigation and relief to innovators.

#### **A. LOWER COURTS SHOULD NOT RELY ON SPECIFICATION DETAILS TO EVALUATE ELIGIBILITY**

This Court should reaffirm that the proper focus of a § 101 subject matter inquiry is the scope of the patent claims, and that courts should not rely on language in the specification to decide whether claims are sufficiently concrete. This would resolve a division among the Federal Circuit judges on the proper role of implementation details in determining eligibility.

It has long been established that “the claims made in the patent are the sole measure of the grant.” *Aro Mfg. Co. v. Convertible Top Replacement Co.*, 365 U.S. 336, 339 (1961); accord *Graver Tank & Mfg. Co. v. Linde Air Prods. Co.*, 336 U.S. 271, 538–39 (1949) (“We have frequently held that it is the claim which measures the grant to the patentee.”); *White v. Dunbar*, 119 U.S. 47, 51 (1886) (a claim is not “like a nose of wax”). Since 1836, the Patent Act has required claims that “particularly specify and point out the part, improvement, or combination which he claims as his own invention or discovery.” *Keystone Bridge Co. v. Phoenix Iron Co.*, 95 U.S. 274, 278 (1877); Act of July 8, 1870, ch. 230, § 24, 16 Stat. 198, 201; 35 U.S.C. § 112(b) (2013). While patent claims

are read in light of the specification and prosecution history, the claims alone determine patent scope. *Phillips v. AWH Corp.*, 415 F.3d 1303, 1317 (Fed. Cir. 2005).

Specifications do not define the scope of an invention; they merely describe how to make and use the claimed invention. § 112(a). Thus, specifications, by their nature, will almost certainly include some detailed, concrete implementations of the invention at hand.

However, “the complexity of the implementing software or the level of detail in the specification does not transform a claim reciting only an abstract concept into a patent-eligible system or method.” *Accenture Global Servs., GMBH v. Guidewire Software, Inc.*, 728 F.3d 1336, 1345 (Fed. Cir. 2013); *O’Reilly v. Morse*, 56 U.S. (15 How.) 62, 120 (1853) (holding ineligible a broad patent claim to electromagnetism, despite a specification disclosing patent-eligible telegraph technology).

It is therefore critically important that, when deciding whether a patent claim is directed to patentable subject matter, courts pay close attention to what is actually being claimed, and be vigilant to ensure that, regardless of specification details, the claims do not envelop abstract ideas, laws of nature, or physical phenomena.

Here, Judge Lourie applied the correct approach, correctly observing that the claims were simply calling for “a handful of computer components, in generic, functional terms that would encompass any device capable of performing the same ubiquitous calculation, storage, and connectivity functions.” *CLS Bank*, 717 F.3d at 1290.

Several other judges, however, mistakenly relied on examples in the specification in determining patent eligibility. For instance, Judge Rader concluded that the claims were directed to patentable subject matter, in

part by looking to complex-looking flowcharts and descriptions in the specification. Referring to one claim, he wrote: “Lest it be said that these structural and functional limitations are mere conventional post-solution activity, *the specification explains implementation* of the recited special purpose computer system.” *Id.* at 1307 (emphasis added). The opinion mistakenly relied on specification details to conclude that the claims are intricate and concrete, and in so doing missed that the claims themselves still recite basic, abstract concepts.

This is not the first time the Federal Circuit has erred this way. In *Ultramercial, LLC v. Hulu, LLC*, the court found certain computer-implemented patent claims to be patent-eligible, and not abstract ideas, in part because of the “intricate and complex computer programming” in the specification. 722 F.3d 1335, 1350 (Fed. Cir. 2013). In doing so, the panel missed the highly abstract nature of the claims, which essentially cover basic e-commerce concepts. *See* Brief of Amicus Curiae Public Knowledge in Support of Petitioner at 8–10, *WildTangent, Inc. v. Ultramercial, LLC*, No. 13-255 (U.S. Sept. 23, 2013).

If this Court does not reject improper use of the specification to determine subject matter eligibility, the confusion in the case below and in *Ultramercial* will allow clever drafters to circumvent this Court’s precedent on abstract ideas, simply by adding details to the specification. This danger is particularly acute for software patents, as it is easy to “recite common language (‘boilerplate’) that describes generic computers” but that does not meaningfully limit the claims. Matt Browning, Note, *Now You See Them, Now You Don’t: The PTO’s Rules on Claims and Continuations*, 23 Berkeley Tech. L.J. 247, 263 (2008). If judges get lost in obfuscatory language in patent specifications, then many more abstract patents



will be incorrectly held valid, which will encourage improper litigation and chill innovation.

*Amici* urge this Court to instruct the lower courts, in unequivocal terms, not to rely on specification details to determine subject matter eligibility.

## **B. SYSTEM CLAIMS ARE NOT MORE PATENT-ELIGIBLE THAN METHOD CLAIMS**

This Court should reiterate that patent subject matter eligibility turns on the substance and not the form of patent claims, and direct the lower courts not to decide patent eligibility based on drafting decisions such as claiming “systems” as opposed to “methods.”

It has long been established that drafting formalities should not distract from the substantive § 101 analysis. As this Court reaffirmed in *Mayo*, appending to an abstract idea a phrase such as “apply it” does not make otherwise ineligible subject matter suddenly patentable. 132 S. Ct. at 1294. To hold differently would permit clever drafting to maneuver around § 101’s important limitations, and ignore the basic rationale behind this Court’s exceptions to § 101. *See Flook*, 437 U.S. at 590. One concurring opinion below, however, urged exactly that wrong approach. *CLS Bank*, 717 F.3d at 1309 (Rader, J.).

In articulating these exceptions, this Court has time and again underscored the principle that patents must ultimately incentivize innovation. *Mayo*, 132 S. Ct. at 1293; *Bilski*, 130 S. Ct. at 3228 (Kennedy, J., op.). While many patents do serve this principle, any claim that covers an abstract idea, law of nature or physical phenomenon in fact deters innovation by taking away those “basic tools of scientific and technological work” available to all. *Benson*, 409 U.S. at 67. Any other approach would create

uncertainty and hesitation for innovators, who may decide that developing technologies or releasing products is prohibitively expensive. *See* Fed. Trade Comm’n, *The Evolving IP Marketplace: Aligning Patent Notice and Remedies with Competition* 74 (2011).

One such drafting formality at issue in the case below is the choice of statutory class, such as a system claim or method claim. Such claims are certainly different in theory: the former covers a machine while the latter covers a process with steps. But, particularly for software, the difference is merely a drafting exercise, because any method can be transformed into a system claim by reciting “a computer configured to perform certain steps” rather than claiming the steps alone.

Lower courts have long noticed that system and method claims can and sometimes do identify the same subject matter. One court, for example, observed that this Court’s precedent on § 101 “applies equally whether an invention is claimed as an apparatus or process, because the form of the claim is often an exercise in drafting.” *In re Johnson*, 589 F.2d 1070, 1070 (C.C.P.A. 1978) (quoted in *In re Alappat*, 33 F.3d 1526, 1542 (Fed. Cir. 1994)). Indeed, the Federal Circuit has previously held that “the form of the claims should not trump basic issues of patentability.” *Bancorp Servs., LLC v. Sun Life Assurance Co. of Can.*, 687 F.3d 1266, 1277 (Fed. Cir. 2012); *accord CyberSource Corp. v. Retail Decisions, Inc.*, 654 F.3d 1366, 1374 (Fed. Cir. 2011) (“[W]e look to the underlying invention for patent-eligibility purposes.”).

Despite this precedent, some judges still rely too heavily on the statutory class of a claim. According to Judge Rader, the system claims in this case “do not claim only an abstract concept without limitations . . . because they require a machine.” *CLS Bank*, 717 F.3d at

1309. Thus, Judge Rader held those system claims eligible, while holding method claims with nearly equivalent wording ineligible. *See id.* at 1312–13.

Judge Rader’s reasoning inappropriately turns formalistic drafting practice into a substantive distinction. As Judge Lourie observed, the “method and system claims use similar and often identical language to describe those actions,” so to have a threshold test turn on this designation would be unreasonable. *Id.* at 1289. He correctly determined that “despite minor differences in terminology . . . the asserted method and system claims require performance of the same basic process.” *Id.* at 1290. To hold otherwise would allow the form of the claims to trump basic issues of patentability, and would elevate an exercise in drafting to substantive significance.

A formalistic approach to system and method claims would be more than a departure from Supreme Court precedent and long standing tradition; it would essentially make the abstract ideas exception a dead letter for a huge swath of patents in the computer arts. Judge Rader’s reasoning implies that a patent attorney can turn practically any method—abstract or not—into patentable subject matter simply by relabeling that claim a “system” with a simple reference to a computer. This would contravene this Court’s warning in *Flook* about the danger of the clever draftsman, and it would obliterate the purpose behind the abstract ideas exception. This Court should explicitly reject such a result.

*Amici* therefore urge this Court to reaffirm that lower courts must examine system and method claims with equal vigor, and that the entirety of § 101’s applicability cannot turn on superficial drafting distinctions.

### C. RECITATION OF DETAILS OF A GENERAL-PURPOSE COMPUTER DOES NOT AFFECT ELIGIBILITY

This Court should make clear that a clever draftsman cannot turn an abstract idea into patentable subject matter simply by reciting aspects of a general-purpose computer, regardless of the level of detail with which the claims describe the general-purpose computer. Several of the opinions below were unduly impressed by detailed, technical language that in fact recited nothing more than parts of a general-purpose computer, *supra* p. 6, and this Court should firmly reject that approach.

Consider a hypothetical ineligible claim to a method of performing long division using pencil and paper, as *amici* discuss above. One could recite at length the physical attributes of the pencil (“a pencil comprising a wooden shaft surrounding a cylindrical graphite barrel, the wooden shaft having a distal end including a rubber eraser, etc.”). But such a recitation would affect neither the tendency of such a claim to effectively preempt use of an abstract idea, nor the ineligibility of the claim. Allowing patent eligibility to turn on this sort of insignificant detail “would make the determination of patentable subject matter depend simply on the draftsman’s art,” a result that this Court should seek to avoid. *Flook*, 437 U.S. at 593.

Just as details about a pencil should not confer patent eligibility, neither should details about a general-purpose computer. Thus, language from the claims at issue, such as “data storage unit” and “communications controller,” should not affect the ineligibility of the claims. This Court should reaffirm this point clearly.

One reason that the lower courts make this error is that they place undue reliance on the 1994 Federal Circuit decision *In re Alappat*. Although that case actually

dealt with a special form of oscilloscope, the lower court stated in dicta that “a general purpose computer in effect becomes a special purpose computer once it is programmed” with software. 33 F.3d 1526, 1545 (Fed. Cir. 1994). Courts have used this statement to support a mistaken conclusion that recitation of general-purpose computer hardware can confer patent eligibility. *See, e.g., CLS Bank*, 717 F.3d at 1305 (Rader, J.); *Ultramercial*, 722 F.3d at 1353.

This reliance on *Alappat* is mistaken because this Court’s precedent regarding abstract ideas does not distinguish between whether something is labeled “general” or “special purpose.” A compact disc becomes special-purpose when music is recorded on it, but no patent should issue on such a “special-purpose compact disc.” 33 F.3d at 1553–54 (Archer, J., dissenting).

The law of subject matter eligibility does not turn on labels. It turns on whether a patented claim would preempt virtually all implementations of an idea, suppressing innovation along the way. This Court should thus reject the continued reliance of the lower courts on this dicta from *Alappat*.

By ensuring that patent eligibility does not turn on formal drafting practices, such as recitation of system-style claims or inclusion of details of general-purpose computer hardware, this Court will take § 101 analysis from the metaphysical confusion that the lower courts have created, and return it to first principles. At the core of those first principles, which date back to the drafting of the Constitution, are the imperatives that patents must be calibrated to promote innovation, and that the toolbox of abstract ideas must remain available to all. It is these principles that should guide this Court’s decision.

## CONCLUSION

For the foregoing reasons, *amici* respectfully submit that this Court should affirm the judgment below.

*Respectfully submitted,*

CHARLES DUAN

*Counsel of Record*

PUBLIC KNOWLEDGE

1818 N St NW, Suite 410

Washington, DC 20036

(202) 861-0020

cduan@publicknowledge.org

JACK LERNER

USC INTELLECTUAL PROPERTY AND  
TECHNOLOGY LAW CLINIC

University of Southern California

Gould School of Law

699 Exposition Blvd, Room 425

Los Angeles, CA 90089

(213) 740-2537

iptlcset@law.usc.edu

*Counsel for Amici Curiae*

## APPENDIX A

IMPLEMENTATION OF CLAIM 26 OF THE '375  
PATENT IN SEVEN LINES OF COMPUTER CODE

The following seven-line computer program, written in the BASIC programming language, implements Claim 26 of the '375 Patent.<sup>13</sup>

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```
10 LET account1 = 200.00
20 LET account3 = 300.00
30 INPUT "Value to exchange for transaction"; exchange
40 IF account1 < exchange THEN PRINT "Inadequate
    value" : STOP
50 account1 = account1 - exchange
60 account3 = account3 + exchange
70 PRINT "Instruction to 1st institution: adjust 2nd
    account by "; -exchange
```

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The text below reviews the elements of the claim in detail and explains how a general-purpose computer, running the above computer program, would satisfy all the elements of the claim. For convenience, the entirety of the claim is reprinted in the next appendix.

All of the computer programming techniques used here predate the patent. The earliest possible priority date of the patent is 1992. The BASIC language dates back to 1964. See Computation Ctr., Dartmouth Coll., *BASIC* (1964), available at [http://bitsavers.trailing-edge.com/pdf/dartmouth/BASIC\\_Oct64.pdf](http://bitsavers.trailing-edge.com/pdf/dartmouth/BASIC_Oct64.pdf). Thus, the computer

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<sup>13</sup>A BASIC program interpreter to run this program is available at <http://www.vintage-basic.net/>.

techniques used in this brief were “well-understood, routine, conventional activity previously engaged in by researchers in the field” as of the priority date of the patent. *Mayo*, 132 S. Ct. at 1294; *cf. CLS Bank*, 717 F.3d at 1310 (Rader, J.) (asserting that the use of computers in the claims did not involve such conventional activity).

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CLAIM 26, PREAMBLE:

*A data processing system to enable the exchange of an obligation between parties, the system comprising:*

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The preamble recites that the claim covers a general purpose computing system, called a “data processing system” by the claim language. The recitation that the system is “to enable the exchange of an obligation” is a statement of field of use or intended use, which should not contribute to the scope of the claim. *See Bilski*, 130 S. Ct. at 3231 (“[L]imiting an abstract idea to one field of use . . . did not make the concept patentable.”); U.S. Patent & Trademark Office, *Manual of Patent Examining Procedure* § 2103(I)(C) (8th ed., 9th rev. 2012) [hereinafter MPEP] (instructing that “statements of intended use or field of use” “may raise a question as to the limiting effect of the language in a claim”).

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CLAIM 26, ELEMENTS 1–2:

*a communications controller;*  
*a first party device, coupled to said communications controller;*

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These elements recite general hardware inherent in a general purpose computer. A “communications controller” broadly refers to a component of a computer that receives and processes communications, and a “first party



device” could refer to any computer hardware.<sup>14</sup> A computer must communicate with its users in order to be useful, so these components are necessary to any computer.

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CLAIM 26, ELEMENTS 3–5:

*a data storage unit having stored therein*

*(a) information about a first account for a first party, independent from a second account maintained by a first exchange institution, and*

*(b) information about a third account for a second party, independent from a fourth account maintained by a second exchange institution; and*

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COMPUTER CODE, LINES 10–20:

10 LET *account1* = 200.00

20 LET *account3* = 300.00

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These elements of the claim simply require that a computer store two numbers representing account balances. The “data storage unit” might be any computer storage component, such as a hard disk or memory. The “information about” the first and third accounts broadly encompasses any account information, such as an account balance.

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<sup>14</sup>Petitioner has at least once described the communications controller as a device “that allows communications over a wide-area network.” Alice Corp. Pty. Ltd.’s Renewed Cross-Motion for Partial Summary Judgment as to Subject Matter Eligibility at 6, *CLS Bank Int’l v. Alice Corp.*, 768 F. Supp. 2d 221 (Dist. D.C. Sept. 22, 2010) (No. 1:07-cv-974) (Doc. No. 95). But the text of the patent belies that limited definition. See ’375 Patent col. 7, ll. 46–57 (“A number of communications controllers . . . effect communications between the processing units and various external hardware devices . . . A large range of communications hardware products are supported, and collectively are referred to as the stakeholder input/output devices.” (reference numbers omitted)).

The recitations that the information be stored “independent from” various accounts maintained by exchange institutions are statements of intended use, which should not contribute to the patentability of the claim. Petitioners have never suggested that the external exchange institutions are necessary parties to infringement of their claims. Furthermore, so long as the two stored numbers reflect actual account balances in external banks, the “independent from” limitations are satisfied.

The computer code implements these elements of the claim by instructing a computer to store two account balances, into variables named *account1* and *account3*.

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CLAIM 26, ELEMENT 6:

*a computer; coupled to said data storage unit and said communications controller; that is configured to*

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This element is simply further recitation of details about a general purpose computer. Any computer would necessarily be coupled to a data storage unit, so that it might access data for processing, and further be coupled to a communications controller, so that it may receive and output information.

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CLAIM 26, ELEMENT 7:

*(a) receive a transaction from said first party device via said communications controller;*

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COMPUTER CODE, LINE 30:

30 INPUT “Value to exchange for transaction”; *exchange*

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According to this element, the computer receives a “transaction.” An exchange of money between two accounts is one type of transaction, and Petitioners have

used described an “exchange” as an example of a transaction. (Petr.’s Br. 7.) Thus, this element requires nothing more than receipt of an instruction to transfer money between two accounts.

The computer code implements this element by requesting the user to input an amount of money to transfer between the first and third account. This is performed by the INPUT command. Upon running this line of code, a computer would print out the prompt message, and then await an outside user to enter a number indicating the amount of money to transfer. The amount to exchange is stored in a variable named *exchange*.

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CLAIM 26, ELEMENT 8:

*(b) electronically adjust said first account and said third account in order to effect an exchange obligation arising from said transaction between said first party and said second party after ensuring that said first party and/or said second party have adequate value in said first account and/or said third account, respectively; and*

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COMPUTER CODE, LINES 40–60:

```
40 IF account1 < exchange THEN PRINT “Inadequate
    value” : STOP
50 account1 = account1 – exchange
60 account3 = account3 + exchange
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This element describes two operations. First, a computer must check that at least one of the accounts has a large enough balance to permit the desired transfer of money (“ensuring that said first party . . . ha[s] adequate value in said first account”). Second, the computer must record the transfer by adjusting the balances of the accounts (“electronically adjust said first account and said third account”).

Note the substantial presence of inoperative language in this claim element. The recitation “in order to effect an exchange obligation arising from said transaction between said first party and said second party” does nothing more than reiterate that the computer is transferring money between accounts. Furthermore, the claim recites that the computer must ensure “adequate value in said first account and/or said third account,” and the disjunctive “and/or” means that the claim element is satisfied if only one of those accounts is checked. *See* MPEP, *supra*, § 2103(I)(C) (“Language that suggests or makes optional but does not require steps to be performed . . . does not limit the scope of a claim or claim limitation.”).

The computer code implements the step of checking the account balances at line 40, which halts execution (with STOP) if the balance of *account1* is less than the amount to be exchanged. The code implements the step of effecting the transfer at lines 50–60, which deduct the amount to be exchanged from *account1* and add that amount to *account3*.

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CLAIM 26, ELEMENT 9:

*(c) generate an instruction to said first exchange institution and/or said second exchange institution to adjust said second account and/or said fourth account in accordance with the adjustment of said first account and/or said third account, wherein said instruction being an irrevocable, time invariant obligation placed on said first exchange institution and/or said second exchange institution.*

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COMPUTER CODE, LINE 70:

70 PRINT “Instruction to 1st institution: adjust 2nd  
account by ”; *–exchange*

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This claim element requires only that a computer produce an instruction to perform the desired transfer of money. The claim element recites “an instruction to said first exchange institution and/or said second exchange institution,” but the disjunctive “and/or” means that a single instruction suffices. Similarly, the recitation of an instruction “to adjust said second account and/or said fourth account” only requires an instruction with regard to a single account.

The requirement that the instruction be “an irrevocable, time invariant obligation” is merely a statement of intended use that should not contribute to the patentability of the claim. An instruction is simply a text, and the recipient of the instruction chooses whether to treat that text as irrevocable or time-invariant. Although this claim language could plausibly have been defined in the specification to require some sort of special format for the instruction, Petitioners have never identified any such special definition in any of their briefs to this Court, the Federal Circuit, or the district court,<sup>15</sup> and the specification contains neither term outside of the claims. Furthermore, even if these terms did have some special meaning, it would only dictate the content of the instruction text, and content of text does not contribute to patentability. *See id.* § 2106(I) (“a mere arrangement of printed matter” is not directed to statutory subject matter).

The computer code implements this element by causing a computer to print an instruction to adjust the second account. The instruction directs the first institution to deduct the amount *exchange* from the account.

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<sup>15</sup>The district court briefs reviewed are identified on the docket as Documents Nos. 53, 54, 68, 95, and 99. The Federal Circuit briefs reviewed are identified on the docket as Documents Nos. 22, 33, 41, and 194.

**APPENDIX B****CLAIM 26 OF THE '375 PATENT**

*Numbers, in square brackets, have been inserted before each element of the claim, to assist in referring to claim elements within the brief.*

A data processing system to enable the exchange of an obligation between parties, the system comprising:

- [1] a communications controller,
- [2] a first party device, coupled to said communications controller,
- [3] a data storage unit having stored therein
  - [4] (a) information about a first account for a first party, independent from a second account maintained by a first exchange institution, and
  - [5] (b) information about a third account for a second party, independent from a fourth account maintained by a second exchange institution; and
- [6] a computer, coupled to said data storage unit and said communications controller, that is configured to
  - [7] (a) receive a transaction from said first party device via said communications controller;
  - [8] (b) electronically adjust said first account and said third account in order to effect an exchange obligation arising from said transaction between said first party and said second party after ensuring that said first party and/or said second party have adequate value in said first account and/or said third account, respectively; and
  - [9] (c) generate an instruction to said first exchange institution and/or said second exchange

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institution to adjust said second account and/or said fourth account in accordance with the adjustment of said first account and/or said third account, wherein said instruction being an irrevocable, time invariant obligation placed on said first exchange institution and/or said second exchange institution.