Fun IP

Prof. Roger Ford
Class 5 – February 3, 2015
Patents: Introduction, disclosure requirements, & the patent bargain

(post-AIA) 35 U.S.C. § 101 — Inventions patentable

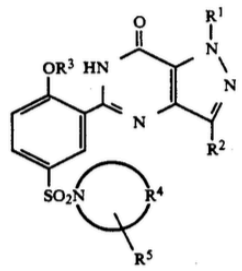
Whoever **invents or discovers** any **new and useful process, machine, manufacture, or composition of matter**, or any new and useful **improvement thereof**, may obtain a patent therefor, subject to the conditions and requirements of this title.

Sildenafil citrate

Claim 1 of U.S. patent no. 5,250,534

We claim:

1. A compound of the formula:



(I)

wherein

R^1 is H, C_1–C_3 alkyl, C_3–C_5 cycloalkyl or C_1–C_3 perfluoroalkyl;

R^2 is H, C_1–C_6 alkyl optionally substituted by OH, C_1–C_3 alkoxy or C_3–C_6 cycloalkyl, or C_1–C_3 perfluoroalkyl;

R^3 is C_1–C_6 alkyl, C_3–C_6 alkenyl, C_3–C_6 alkynyl, C_3–C_7 cycloalkyl, C_1–C_6 perfluoroalkyl or (C_3–C_6 cycloalkyl)C_1–C_6 alkyl;

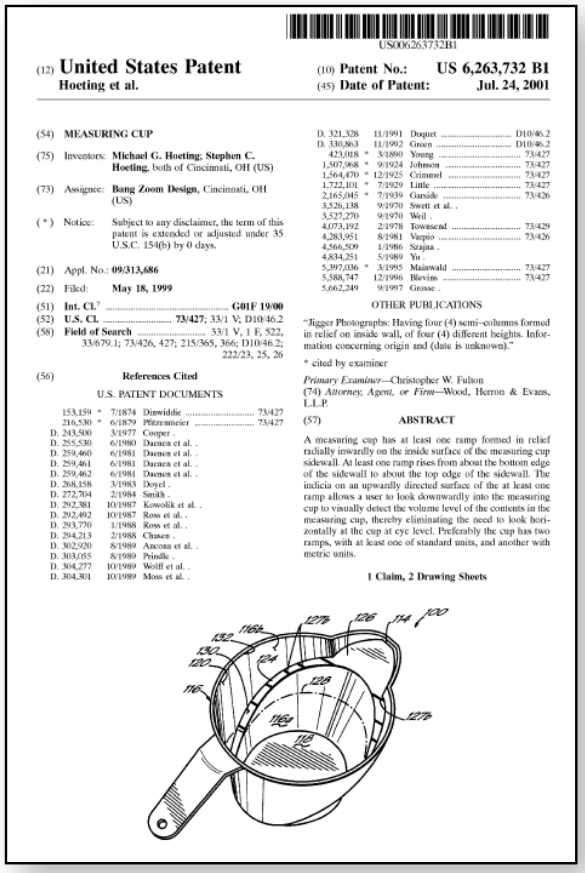
R^4 taken together with the nitrogen atom to which it is attached completes a 4-N-(R^6)-piperazinyl group;

R^5 is H, C_1–C_4 alkyl, C_1–C_3 alkoxy, NR^7R^8, or $CONR^7R^8$;

R^6 is H, C_1–C_6 alkyl, (C_1–C_3 alkoxy) C_2–C_6 alkyl hydroxy C_2–C_6 alkyl, (R^7R^8N)C_2–C_6 alkyl, (R^7R^8NCO)C_1–C_6 alkyl, $CONR^7R^8$, $CSNR^7R^8$ or $C(NH)NR^7R^8$;

R^7 and R^8 are each independently H, C_1–C_4 alkyl, (C_1–C_3 alkoxy)C_2–C_4 alkyl or hydroxy C_2–C_4 alkyl; and

pharmaceutically acceptable salts thereof.



US006263732B1

(12) **United States Patent**
Hoeting et al.

(10) **Patent No.: US 6,263,732 B1**
(45) **Date of Patent: Jul. 24, 2001**

(54) **MEASURING CUP**

(75) Inventors: **Michael G. Hoeting**; **Stephen C. Hoeting**, both of Cincinnati, OH (US)

(73) Assignee: **Bang Zoom Design**, Cincinnati, OH (US)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) Appl. No.: **09/313,686**

(22) Filed: **May 18, 1999**

(51) **Int. Cl.**[7] **G01F 19/00**
(52) **U.S. Cl.** ..... **73/427**; 33/1 V; D10/46.2
(58) **Field of Search** ..... 33/1 V, 1 F, 522, 33/679.1; 73/426, 427; 215/365, 366; D10/46.2; 222/23, 25, 26

(56) **References Cited**

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Primary Examiner—Christopher W. Fulton
(74) *Attorney, Agent, or Firm*—Wood, Herron & Evans, L.L.P.

(57) **ABSTRACT**

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1 Claim, 2 Drawing Sheets

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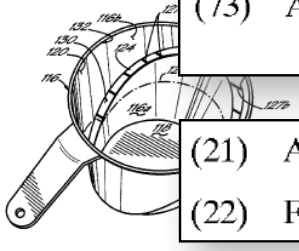

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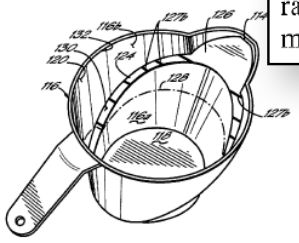

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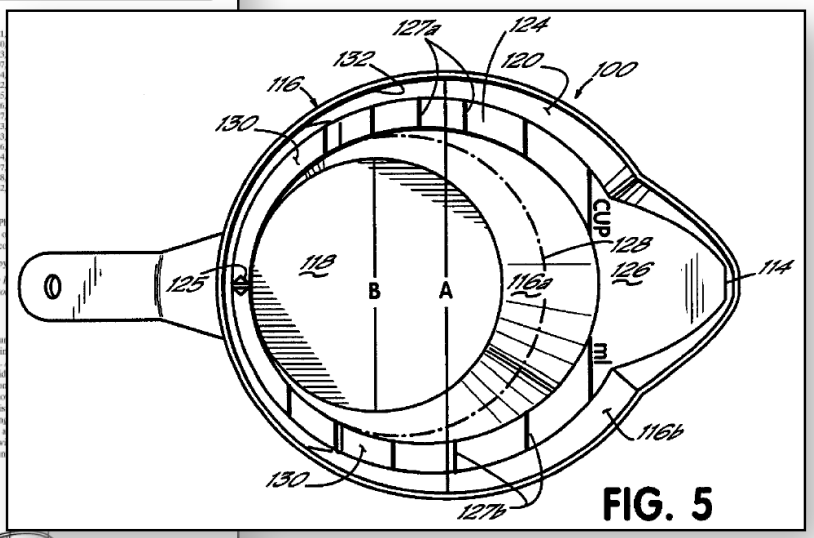
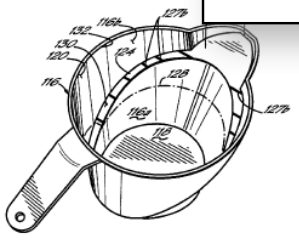


FIG. 5



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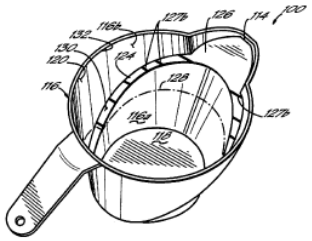

FIELD OF THE INVENTIONS

This invention relates to measuring cups. More specifically, this invention relates to a measuring cup having indicia viewable from above.

BACKGROUND OF THE INVENTION

Measuring cups are known. Measuring cups can be made from a variety of materials, including plastic, metal and glass. One o
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While the above-described methods for determining the volume of contents in a measuring cup may seem simple enough for most users, these methods can prove to be difficult for others. Users with bad knees, a bad back, or arthritis, for example, may not only have substantial difficulty in stooping over to accurately read the volume of contents in a measuring cup placed on a level surface, but may also have just as much difficulty in lifting a measuring cup to eye level and holding the cup steady to read the volume of contents held therein. When precise measurement of the volume of contents within a measuring cup is critical to a task, the simple actions of bending over or lifting a measuring cup to eye level, which seem easy to some users, may become difficult and uncomfortable for others.

Measuring the volume of cooking ingredients using prior art measuring cups can also be frustrating. As mentioned above, it can be difficult for a user to stoop over to read the level of contents when placed on a level surface or when lifted to eye level. An unsteady hand not only makes the

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Primary Examiner—Christ
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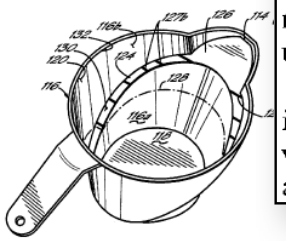

SUMMARY OF THE INVENTION

The present invention achieves the above-stated objectives by including with a measuring cup at least one sloped ramp having an upwardly directed surface having indicia which is readily observable by an observer looking downwardly into the open end of the cup.

The structure simplifies volume determination because there is no need for the observer to move relative to the cup in order to look in a horizontal direction at the cup indicia. Thus, the possibility of spilling is reduced. Also, since the ramp preferably rises continuously and gradually from the bottom of the cup, a user who is filling the cup from above can actually see the volume indicia on the upwardly directed surface of the ramp while the cup is being filled, looking along the same line of sight generally used during filling. These advantages result from the ability to visually determine the volume of the cup by simply looking into the open upper end, and the gradual slope of the ramp.

According to a first preferred embodiment of the invention, the cup has a bottom wall and an encircling vertical sidewall, so that the cup is cylindrical in shape with an open upper end. Inside the cup, at least one ramp slopes

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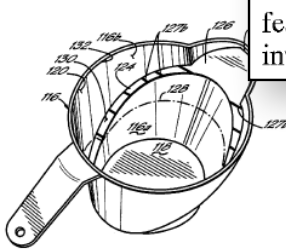

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BRIEF DESCRIPTION OF THE DRAWINGS

FIG. **1** is a perspective view of a measuring cup according to a first preferred embodiment of the invention

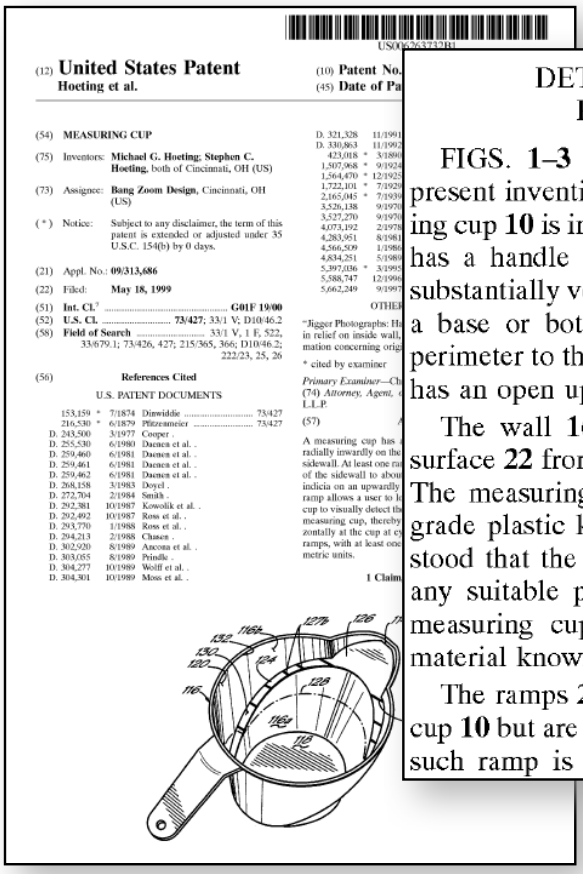
FIG. **2** is a top plan view of the measuring cup of FIG. **1**

FIG. **3** is a cross-sectional view of the measuring cup of FIG. **2** taken along **3**—**3**

FIG. **4** is a perspective view of a second preferred embodiment of the inventive measuring cup

FIG. **5** is a top plan view of the measuring cup of FIG. **4**

FIG. **6** is side view of the measuring cup and nesting feature of a second preferred embodiment of the present inventive measuring cup.



US006263732B1

(12) **United States Patent**
Hoeting et al.

(10) **Patent No.**
(45) **Date of Pa**

(54) **MEASURING CUP**

(75) Inventors: **Michael G. Hoeting**; **Stephen C. Hoeting**, both of Cincinnati, OH (US)

(73) Assignee: **Bang Zoom Design**, Cincinnati, OH (US)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) Appl. No.: **09/313,686**

(22) Filed: **May 18, 1999**

(51) **Int. Cl.**[7] **G01F 19/00**

(52) **U.S. Cl.** ..... **73/427**; 33/1 V; D10/46.2

(58) **Field of Search** ..... 33/1 V, 1 F, 522, 33/679.1; 73/426, 427; 215/365, 366; D10/46.2; 222/23, 25, 26

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D. 259,460		6/1981	Daenen et al. .	
D. 259,461		6/1981	Daenen et al. .	
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D. 268,158		3/1983	Doyel .	
D. 272,704		2/1984	Smith .	
D. 292,381		10/1987	Kowolik et al. .	
D. 292,492		10/1987	Ross et al. .	
D. 293,770		1/1988	Ross et al. .	
D. 294,213		2/1988	Chasen .	
D. 302,920		8/1989	Ancona et al. .	
D. 303,055		8/1989	Prindle .	
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Primary Examiner—Ch
(74) *Attorney, Agent,*
L.L.P.

(57) A

A measuring cup has
radially inwardly on the
sidewall. At least one ra
of the sidewall to abou
indicia on an upwardly
ramp allows a user to l
cup to visually detect th
measuring cup, thereby
zontally at the cup at e
ramps, with at least one
metric units.

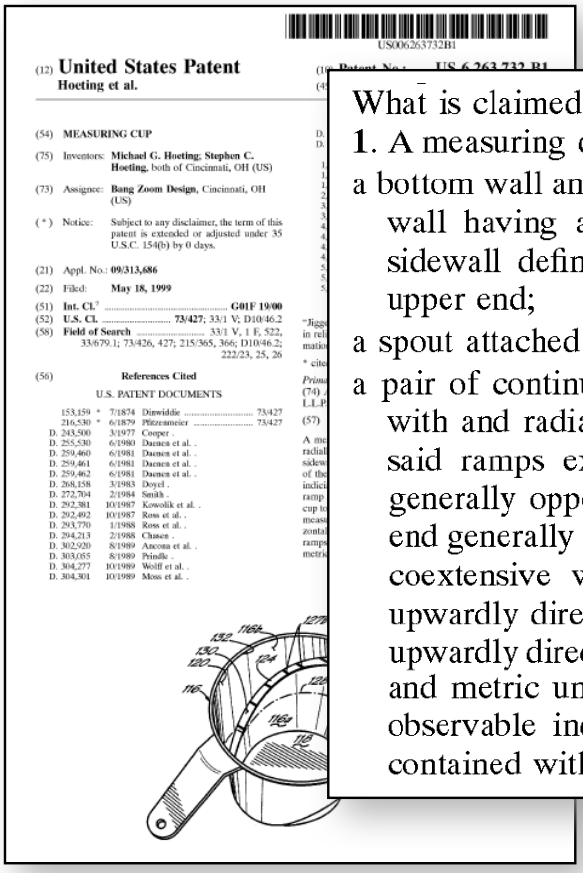
1 Claim

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

FIGS. **1–3** show a first preferred embodiment of the present inventive measuring cup **10**. Generally, the measuring cup **10** is integrally formed out of a suitable material and has a handle **12** and a spout **14** integrally attached to a substantially vertical sidewall **16**. The measuring cup **10** has a base or bottom wall **18** integrally attached around its perimeter to the bottom edge of the sidewall **16**. The cup **10** has an open upper end.

The wall **16** has an inside surface **20** and an outside surface **22** from which ramps **24***a*, **24***b* are formed in relief. The measuring cup **10** is molded from any suitable food grade plastic known in the art, however, it will be understood that the measuring cup **10** may be manufactured by any suitable process. It will also be understood that the measuring cup **10** may be made of any other suitable material known in the art, e.g., Pyrex®, metal.

The ramps **24***a*, **24***b* are located on opposite sides of the cup **10** but are identical in construction. Therefore, only one such ramp is described. Each ramp has a ramp base, or



US006263732B1

(12) **United States Patent**
Hoeting et al.

(54) **MEASURING CUP**

(75) Inventors: **Michael G. Hoeting**; **Stephen C. Hoeting**, both of Cincinnati, OH (US)

(73) Assignee: **Bang Zoom Design**, Cincinnati, OH (US)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) Appl. No.: **09/313,686**

(22) Filed: **May 18, 1999**

(51) **Int. Cl.**[7] **G01F 19/00**

(52) **U.S. Cl.** ..... **73/427**; 33/1 V; D10/46.2

(58) **Field of Search** ..... 33/1 V, 1 F, 522, 33/679.1; 73/426, 427; 215/365, 366; D10/46.2; 222/23, 25, 26

(56) **References Cited**

U.S. PATENT DOCUMENTS

153,159	*	7/1874	Dinwiddie	73/427
216,530	*	6/1879	Pfitzenmeier	73/427
D. 243,500		3/1977	Cooper .	
D. 255,530		6/1980	Daenen et al. .	
D. 259,460		6/1981	Daenen et al. .	
D. 259,461		6/1981	Daenen et al. .	
D. 259,462		6/1981	Daenen et al. .	
D. 268,158		3/1983	Doyel .	
D. 272,704		2/1984	Smith .	
D. 292,381		10/1987	Kowolik et al. .	
D. 292,492		10/1987	Ross et al. .	
D. 293,770		1/1988	Ross et al. .	
D. 294,213		2/1988	Chasen .	
D. 302,920		8/1989	Ancona et al. .	
D. 303,055		8/1989	Prindle .	
D. 304,277		10/1989	Wolff et al. .	
D. 304,301		10/1989	Moss et al. .	

What is claimed is:

1. A measuring device, comprising:

a bottom wall and a generally vertical and encircling side wall having a lower edge and an upper edge, said sidewall defining an upwardly opening cup with an upper end;

a spout attached integrally to said sidewall; and

a pair of continuously sloping ramps formed integrally with and radially inward in relief from said sidewall, said ramps extending from about said bottom wall generally opposite said spout toward said open upper end generally adjacent said spout, wherein said ramp is coextensive with said spout, said ramp having an upwardly directed surface and indicia located on said upwardly directed surface being at least one of standard and metric units of measurement providing a readily observable indication of the volume of the contents contained within said cup.

(post-AIA) 35 U.S.C. § 112 — Specification

(a) In General.— The specification shall contain a **written description of the invention**, and of the **manner and process of making and using it**, in such full, clear, concise, and exact terms as to **enable any person skilled in the art** to which it pertains, or with which it is most nearly connected, **to make and use the same**, and shall set forth the **best mode** contemplated by the inventor or joint inventor of carrying out the invention.

(b) Conclusion.— The specification shall conclude with **one or more claims particularly pointing out and distinctly claiming** the subject matter which the inventor or a joint inventor regards as the invention.

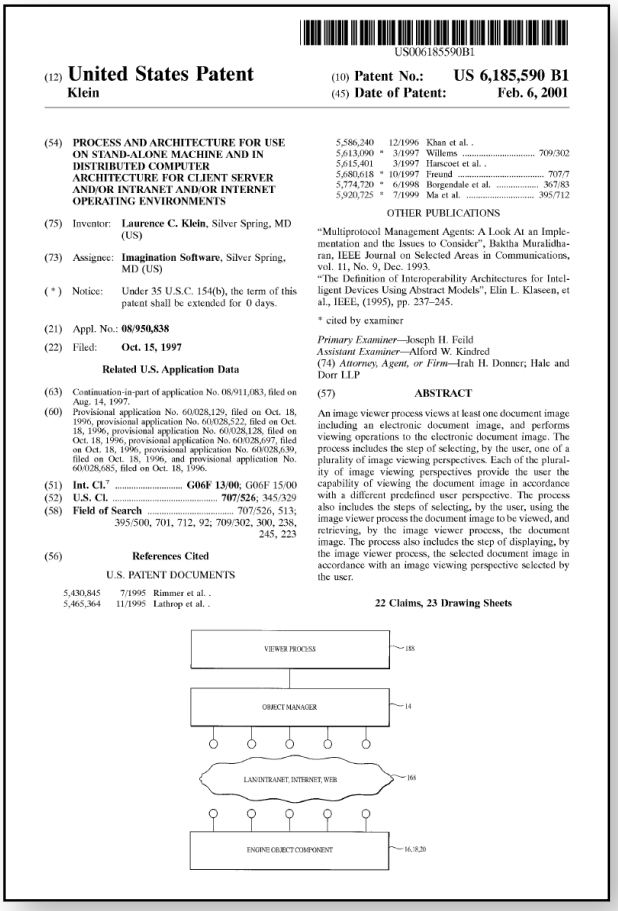
* * *

35 U.S.C. § 132 — Notice of rejection; reexamination (Post-AIA)

(a) Whenever, on examination, any claim for a patent is rejected, or any objection or requirement made, the Director shall notify the applicant thereof, stating the reasons for such rejection, or objection or requirement, together with such information and references as may be useful in judging of the propriety of continuing the prosecution of his application; and **if after receiving such notice, the applicant persists** in his claim for a patent, **with or without amendment,** the application shall be reexamined. **No amendment shall introduce new matter into the disclosure of the invention.** * * *

35 U.S.C. § 120 — Benefit of Earlier Filing Date in the United States (Post-AIA)

An application for patent for an invention disclosed in the manner provided by section 112 (a) (other than the requirement to disclose the best mode) **in an application previously filed in the United States,** * * * which names **an inventor or joint inventor in the previously filed application** shall have the **same effect,** as to such invention, **as though filed on the date of the prior application**, if filed before the patenting or abandonment of or termination of proceedings on the first application or on an application similarly entitled to the benefit of the filing date of the first application and if it contains or is amended to contain a specific reference to the earlier filed application. * * *



US006185590B1

(12) **United States Patent**
Klein

(10) **Patent No.: US 6,185,590 B1**
(45) **Date of Patent: Feb. 6, 2001**

(54) **PROCESS AND ARCHITECTURE FOR USE ON STAND-ALONE MACHINE AND IN DISTRIBUTED COMPUTER ARCHITECTURE FOR CLIENT SERVER AND/OR INTRANET AND/OR INTERNET OPERATING ENVIRONMENTS**

(75) Inventor: **Laurence C. Klein**, Silver Spring, MD (US)

(73) Assignee: **Imagination Software**, Silver Spring, MD (US)

(*) Notice: Under 35 U.S.C. 154(b), the term of this patent shall be extended for 0 days.

(21) Appl. No.: **08/950,838**

(22) Filed: **Oct. 15, 1997**

Related U.S. Application Data

(63) Continuation-in-part of application No. 08/911,083, filed on Aug. 14, 1997.

(60) Provisional application No. 60/028,129, filed on Oct. 18, 1996, provisional application No. 60/028,522, filed on Oct. 18, 1996, provisional application No. 60/028,128, filed on Oct. 18, 1996, provisional application No. 60/028,697, filed on Oct. 18, 1996, provisional application No. 60/028,639, filed on Oct. 18, 1996, and provisional application No. 60/028,685, filed on Oct. 18, 1996.

(51) **Int. Cl.**[7] **G06F 13/00**; G06F 15/00

(52) **U.S. Cl.** **707/526**; 345/329

(58) **Field of Search** 707/526, 513; 395/500, 701, 712, 92; 709/302, 300, 238, 245, 223

(56) **References Cited**

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"The Definition of Interoperability Architectures for Intelligent Devices Using Abstract Models", Elin L. Klaseen, et al., IEEE, (1995), pp. 237–245.

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Primary Examiner—Joseph H. Feild
Assistant Examiner—Alford W. Kindred
(74) *Attorney, Agent, or Firm*—Irah H. Donner; Hale and Dorr LLP

(57) **ABSTRACT**

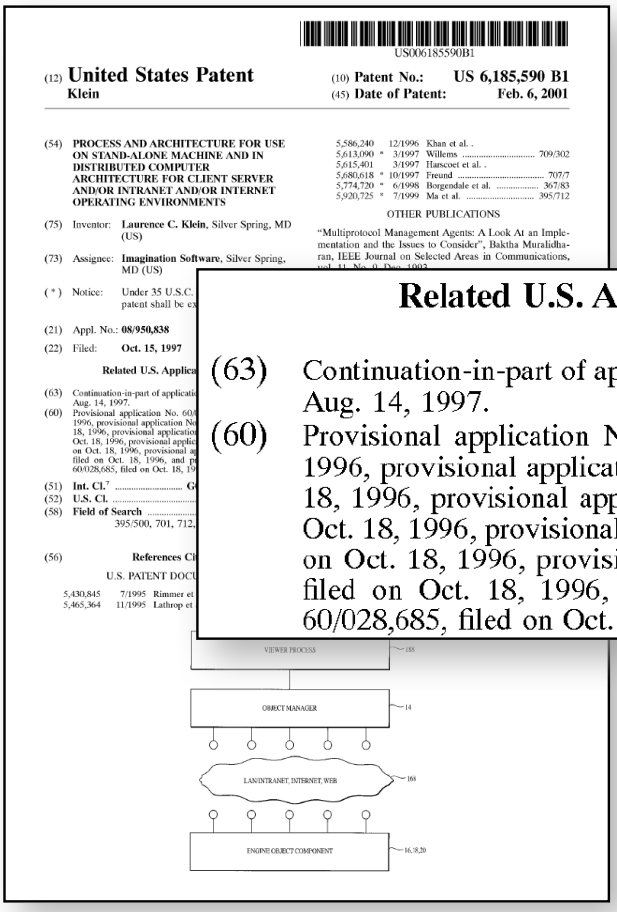
An image viewer process views at least one document image including an electronic document image, and performs viewing operations to the electronic document image. The process includes the step of selecting, by the user, one of a plurality of image viewing perspectives. Each of the plurality of image viewing perspectives provide the user the capability of viewing the document image in accordance with a different predefined user perspective. The process also includes the steps of selecting, by the user, using the image viewer process the document image to be viewed, and retrieving, by the image viewer process, the document image. The process also includes the step of displaying, by the image viewer process, the selected document image in accordance with an image viewing perspective selected by the user.

22 Claims, 23 Drawing Sheets

U.S. Patent No. 6,185,590

→ Filing date: Oct. 15, 1997

→ "Process and architecture for use on stand-alone machine and in distributed computer architecture for client server and/or intranet and/or internet operating environments"



US006185590B1

(12) **United States Patent**
Klein

(10) **Patent No.: US 6,185,590 B1**
(45) **Date of Patent: Feb. 6, 2001**

(54) **PROCESS AND ARCHITECTURE FOR USE ON STAND-ALONE MACHINE AND IN DISTRIBUTED COMPUTER ARCHITECTURE FOR CLIENT SERVER AND/OR INTRANET AND/OR INTERNET OPERATING ENVIRONMENTS**

(75) Inventor: **Laurence C. Klein**, Silver Spring, MD (US)

(73) Assignee: **Imagination Software**, Silver Spring, MD (US)

(*) Notice: Under 35 U.S.C. patent shall be ex

(21) Appl. No.: **08/950,838**

(22) Filed: **Oct. 15, 1997**

Related U.S. Applica

(63) Continuation-in-part of applicati Aug. 14, 1997.

(60) Provisional application No. 60/ 1996, provisional application No 18, 1996, provisional applicatio Oct. 18, 1996, provisional applic on Oct. 18, 1996, provisional a filed on Oct. 18, 1996, and [p 60/028,685, filed on Oct. 18, 19

(51) **Int. Cl.**[7] .....
(52) **U.S. Cl.** .....
(58) **Field of Search** 395/500, 701, 712,

(56) **References Cit**

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5,465,364 11/1995 Lathrop et

5,586,240 12/1996 Khan et al. .
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Related U.S. Application Data

(63) Continuation-in-part of application No. 08/911,083, filed on Aug. 14, 1997.

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U.S. Patent No. 6,185,590

→ Filing date: Oct. 15, 1997

…or
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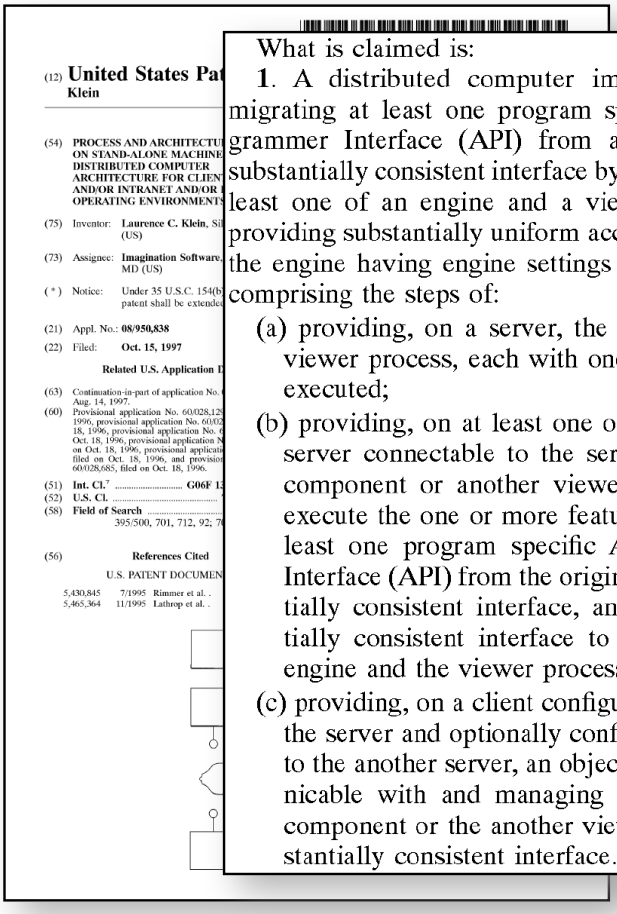
architecture for client server and/or intranet and/or internet operating environments"



US006185590B1

(12) **United States Pat**
Klein

(54) **PROCESS AND ARCHITECTU ON STAND-ALONE MACHINE DISTRIBUTED COMPUTER ARCHITECTURE FOR CLIEN AND/OR INTRANET AND/OR OPERATING ENVIRONMENTS**

(75) Inventor: **Laurence C. Klein**, Si (US)

(73) Assignee: **Imagination Software**, MD (US)

(*) Notice: Under 35 U.S.C. 154(b) patent shall be extende

(21) Appl. No.: **08/950,838**

(22) Filed: **Oct. 15, 1997**

Related U.S. Application D

(63) Continuation-in-part of application No. Aug. 14, 1997.

(60) Provisional application No. 60/028,12 1996, provisional application No. 60/02 18, 1996, provisional application No. Oct. 18, 1996, provisional application N on Oct. 18, 1996, provisional applicati filed on Oct. 18, 1996, and provisio 60/028,685, filed on Oct. 18, 1996.

(51) **Int. Cl.**[7] **G06F 1**
(52) **U.S. Cl.** .....
(58) **Field of Search** 395/500, 701, 712, 92;

(56) **References Cited**

U.S. PATENT DOCUMEN

5,430,845 7/1995 Rimmer et al. .
5,465,364 11/1995 Lathrop et al. .

What is claimed is:

1. A distributed computer implemented process for migrating at least one program specific Application Programmer Interface (API) from an original state into a substantially consistent interface by building an object for at least one of an engine and a viewer process, the object providing substantially uniform access to the at least one of the engine having engine settings and the viewer process, comprising the steps of:

(a) providing, on a server, the at least one engine and viewer process, each with one or more features to be executed;

(b) providing, on at least one of the server and another server connectable to the server, at least one engine component or another viewer process configured to execute the one or more features by converting the at least one program specific Application Programmer Interface (API) from the original state into the substantially consistent interface, and mapping the substantially consistent interface to the at least one of the engine and the viewer process; and

(c) providing, on a client configured to be connectable to the server and optionally configured to be connectable to the another server, an object manager layer communicable with and managing the at least one engine component or the another viewer process via the substantially consistent interface.

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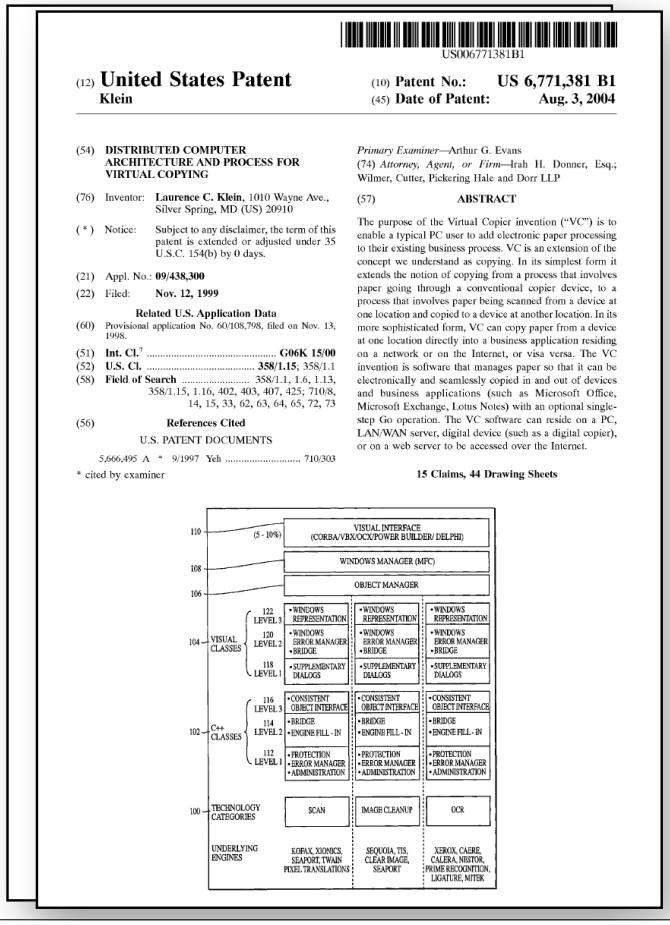

US006771381B1

(12) **United States Patent**
Klein

(10) **Patent No.: US 6,771,381 B1**
(45) **Date of Patent: Aug. 3, 2004**

(54) **DISTRIBUTED COMPUTER ARCHITECTURE AND PROCESS FOR VIRTUAL COPYING**

(76) Inventor: **Laurence C. Klein**, 1010 Wayne Ave., Silver Spring, MD (US) 20910

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) Appl. No.: **09/438,300**

(22) Filed: **Nov. 12, 1999**

Related U.S. Application Data

(60) Provisional application No. 60/108,798, filed on Nov. 13, 1998.

(51) **Int. Cl.**[7] **G06K 15/00**

(52) **U.S. Cl.** **358/1.15**; 358/1.1

(58) **Field of Search** 358/1.1, 1.6, 1.13, 358/1.15, 1.16, 402, 403, 407, 425; 710/8, 14, 15, 33, 62, 63, 64, 65, 72, 73

(56) **References Cited**

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Primary Examiner—Arthur G. Evans
(74) *Attorney, Agent, or Firm*—Irah H. Donner, Esq.; Wilmer, Cutter, Pickering Hale and Dorr LLP

(57) **ABSTRACT**

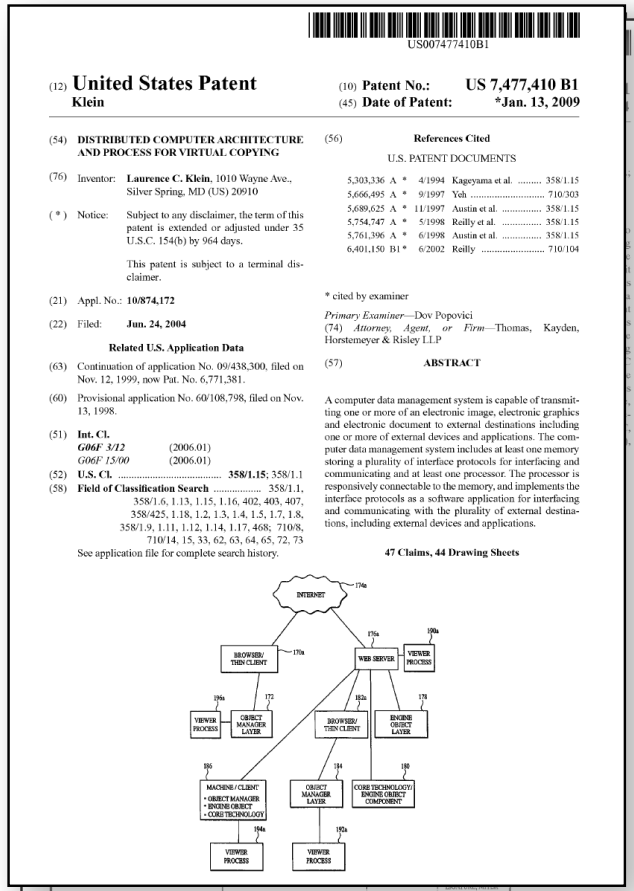
The purpose of the Virtual Copier invention ("VC") is to enable a typical PC user to add electronic paper processing to their existing business process. VC is an extension of the concept we understand as copying. In its simplest form it extends the notion of copying from a process that involves paper going through a conventional copier device, to a process that involves paper being scanned from a device at one location and copied to a device at another location. In its more sophisticated form, VC can copy paper from a device at one location directly into a business application residing on a network or on the Internet, or visa versa. The VC invention is software that manages paper so that it can be electronically and seamlessly copied in and out of devices and business applications (such as Microsoft Office, Microsoft Exchange, Lotus Notes) with an optional single-step Go operation. The VC software can reside on a PC, LAN/WAN server, digital device (such as a digital copier), or on a web server to be accessed over the Internet.

15 Claims, 44 Drawing Sheets

U.S. Patent No. 6,771,381

→ Filing date: Nov. 12, 1999

→ "Distributed computer architecture and process for virtual copying"



US007477410B1

(12) **United States Patent**
Klein

(10) **Patent No.: US 7,477,410 B1**
(45) **Date of Patent: *Jan. 13, 2009**

(54) **DISTRIBUTED COMPUTER ARCHITECTURE AND PROCESS FOR VIRTUAL COPYING**

(76) Inventor: **Laurence C. Klein**, 1010 Wayne Ave., Silver Spring, MD (US) 20910

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 964 days.

This patent is subject to a terminal disclaimer.

(21) Appl. No.: **10/874,172**

(22) Filed: **Jun. 24, 2004**

Related U.S. Application Data

(63) Continuation of application No. 09/438,300, filed on Nov. 12, 1999, now Pat. No. 6,771,381.

(60) Provisional application No. 60/108,798, filed on Nov. 13, 1998.

(51) **Int. Cl.**
G06F 3/12 (2006.01)
G06F 15/00 (2006.01)

(52) **U.S. Cl.** **358/1.15**; 358/1.1

(58) **Field of Classification Search** 358/1.1, 358/1.6, 1.13, 1.15, 1.16, 402, 403, 407, 358/425, 1.18, 1.2, 1.3, 1.4, 1.5, 1.7, 1.8, 358/1.9, 1.11, 1.12, 1.14, 1.17, 468; 710/8, 710/14, 15, 33, 62, 63, 64, 65, 72, 73

See application file for complete search history.

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Primary Examiner—Dov Popovici
(74) *Attorney, Agent, or Firm*—Thomas, Kayden, Horstemeyer & Risley LLP

(57) **ABSTRACT**

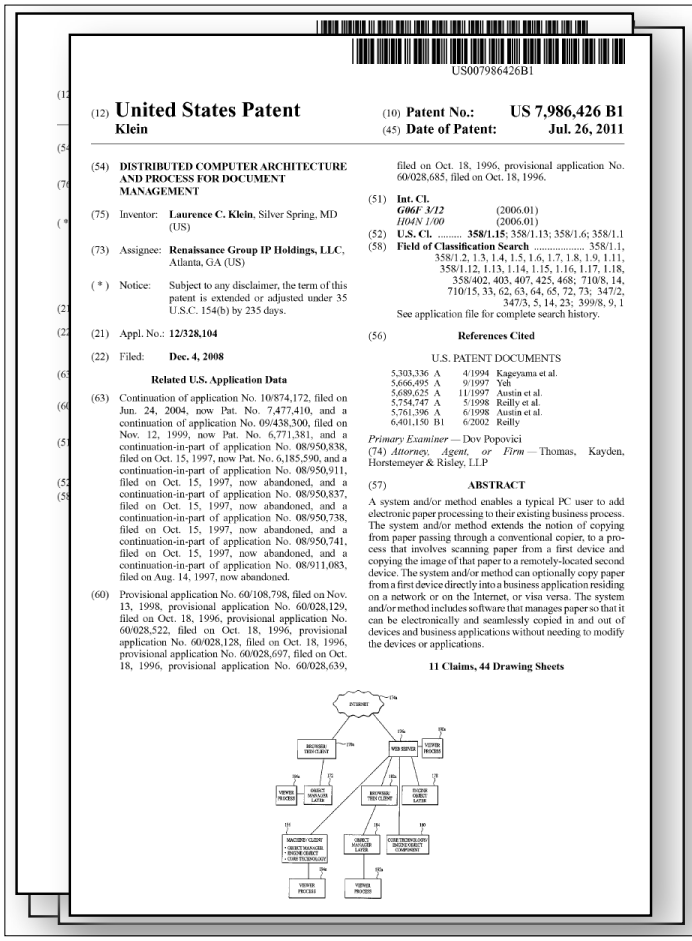
A computer data management system is capable of transmitting one or more of an electronic image, electronic graphics and electronic document to external destinations including one or more of external devices and applications. The computer data management system includes at least one memory storing a plurality of interface protocols for interfacing and communicating and at least one processor. The processor is responsively connectable to the memory, and implements the interface protocols as a software application for interfacing and communicating with the plurality of external destinations, including external devices and applications.

47 Claims, 44 Drawing Sheets

U.S. Patent No. 7,477,410

→ Filing date: June 24, 2004

→ "Distributed computer architecture and process for virtual copying"



US007986426B1

(12) **United States Patent**
Klein

(10) **Patent No.: US 7,986,426 B1**
(45) **Date of Patent: Jul. 26, 2011**

(54) **DISTRIBUTED COMPUTER ARCHITECTURE AND PROCESS FOR DOCUMENT MANAGEMENT**

(75) Inventor: **Laurence C. Klein**, Silver Spring, MD (US)

(73) Assignee: **Renaissance Group IP Holdings, LLC**, Atlanta, GA (US)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 235 days.

(21) Appl. No.: **12/328,104**

(22) Filed: **Dec. 4, 2008**

Related U.S. Application Data

(63) Continuation of application No. 10/874,172, filed on Jun. 24, 2004, now Pat. No. 7,477,410, and a continuation of application No. 09/438,300, filed on Nov. 12, 1999, now Pat. No. 6,771,381, and a continuation-in-part of application No. 08/950,838, filed on Oct. 15, 1997, now Pat. No. 6,185,590, and a continuation-in-part of application No. 08/950,911, filed on Oct. 15, 1997, now abandoned, and a continuation-in-part of application No. 08/950,837, filed on Oct. 15, 1997, now abandoned, and a continuation-in-part of application No. 08/950,738, filed on Oct. 15, 1997, now abandoned, and a continuation-in-part of application No. 08/950,741, filed on Oct. 15, 1997, now abandoned, and a continuation-in-part of application No. 08/911,083, filed on Aug. 14, 1997, now abandoned.

(60) Provisional application No. 60/108,798, filed on Nov. 13, 1998, provisional application No. 60/028,129, filed on Oct. 18, 1996, provisional application No. 60/028,522, filed on Oct. 18, 1996, provisional application No. 60/028,128, filed on Oct. 18, 1996, provisional application No. 60/028,697, filed on Oct. 18, 1996, provisional application No. 60/028,639, filed on Oct. 18, 1996, provisional application No. 60/028,685, filed on Oct. 18, 1996.

(51) **Int. Cl.**
G06F 3/12 (2006.01)
H04N 1/00 (2006.01)

(52) **U.S. Cl.** **358/1.15**; 358/1.13; 358/1.6; 358/1.1

(58) **Field of Classification Search** 358/1.1, 358/1.2, 1.3, 1.4, 1.5, 1.6, 1.7, 1.8, 1.9, 1.11, 358/1.12, 1.13, 1.14, 1.15, 1.16, 1.17, 1.18, 358/402, 403, 407, 425, 468; 710/8, 14, 710/15, 33, 62, 63, 64, 65, 72, 73; 347/2, 347/3, 5, 14, 23; 399/8, 9, 1
See application file for complete search history.

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(57) **ABSTRACT**

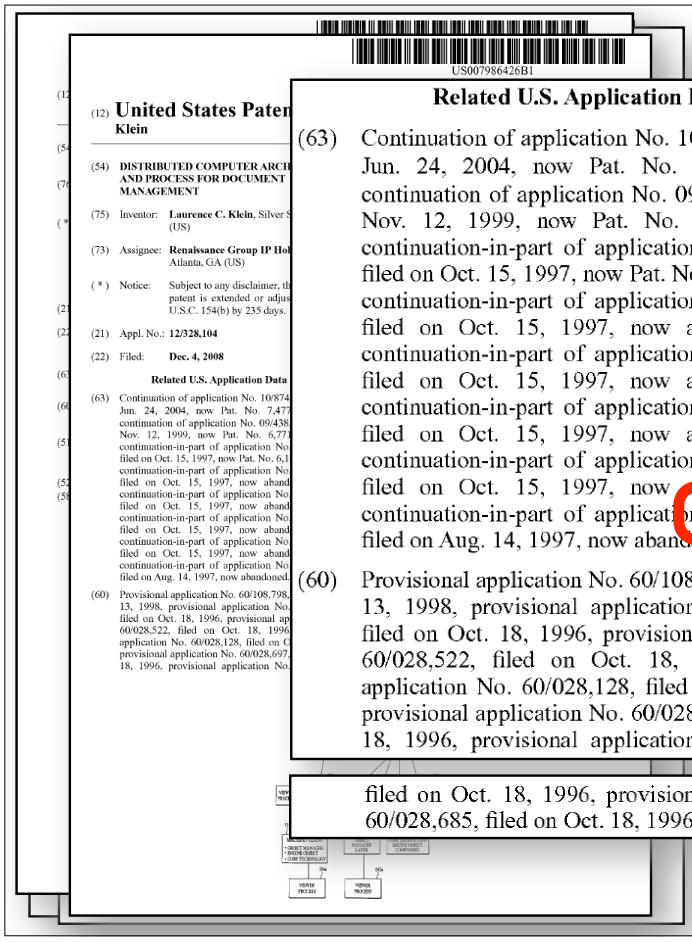
A system and/or method enables a typical PC user to add electronic paper processing to their existing business process. The system and/or method extends the notion of copying from paper passing through a conventional copier, to a process that involves scanning paper from a first device and copying the image of that paper to a remotely-located second device. The system and/or method can optionally copy paper from a first device directly into a business application residing on a network or on the Internet, or visa versa. The system and/or method includes software that manages paper so that it can be electronically and seamlessly copied in and out of devices and business applications without needing to modify the devices or applications.

11 Claims, 44 Drawing Sheets

U.S. Patent No. 7,986,426

→ Filing date: Dec. 4, 2008

→ "Distributed computer architecture and process for document management"



US007986426B1

(12) **United States Patent**
Klein

(54) **DISTRIBUTED COMPUTER ARCHITECTURE AND PROCESS FOR DOCUMENT MANAGEMENT**

(75) Inventor: **Laurence C. Klein**, Silver Spring, MD (US)

(73) Assignee: **Renaissance Group IP Holdings, LLC**, Atlanta, GA (US)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 235 days.

(21) Appl. No.: **12/328,104**

(22) Filed: **Dec. 4, 2008**

Related U.S. Application Data

(63) Continuation of application No. 10/874,172, filed on Jun. 24, 2004, now Pat. No. 7,477,410, and a continuation of application No. 09/438,300, filed on Nov. 12, 1999, now Pat. No. 6,771,381, and a continuation-in-part of application No. 08/950,838, filed on Oct. 15, 1997, now Pat. No. 6,185,590, and a continuation-in-part of application No. 08/950,911, filed on Oct. 15, 1997, now abandoned, and a continuation-in-part of application No. 08/950,837, filed on Oct. 15, 1997, now abandoned, and a continuation-in-part of application No. 08/950,738, filed on Oct. 15, 1997, now abandoned, and a continuation-in-part of application No. 08/950,741, filed on Oct. 15, 1997, now abandoned, and a continuation-in-part of application No. 08/911,083, filed on Aug. 14, 1997, now abandoned.

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U.S. Patent 986,426

g date: . 4, 2008

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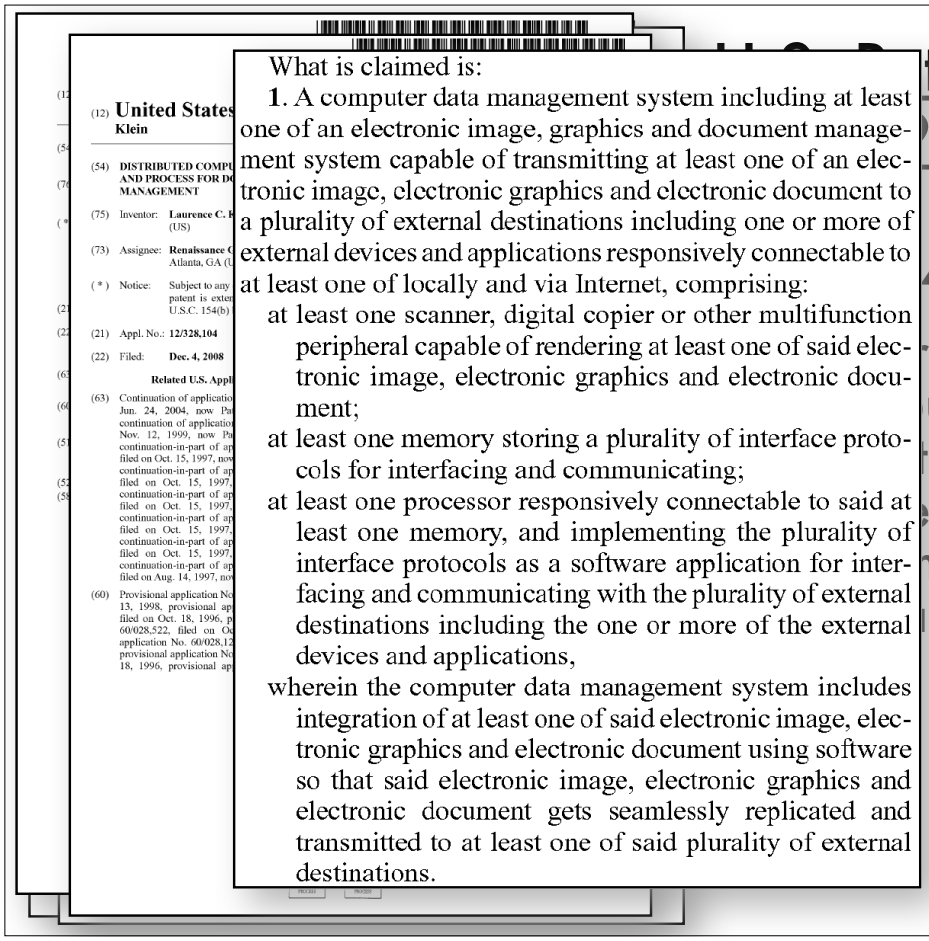

What is claimed is:

1. A computer data management system including at least one of an electronic image, graphics and document management system capable of transmitting at least one of an electronic image, electronic graphics and electronic document to a plurality of external destinations including one or more of external devices and applications responsively connectable to at least one of locally and via Internet, comprising:

at least one scanner, digital copier or other multifunction peripheral capable of rendering at least one of said electronic image, electronic graphics and electronic document;

at least one memory storing a plurality of interface protocols for interfacing and communicating;

at least one processor responsively connectable to said at least one memory, and implementing the plurality of interface protocols as a software application for interfacing and communicating with the plurality of external destinations including the one or more of the external devices and applications,

wherein the computer data management system includes integration of at least one of said electronic image, electronic graphics and electronic document using software so that said electronic image, electronic graphics and electronic document gets seamlessly replicated and transmitted to at least one of said plurality of external destinations.

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To assist you in confirming that you need a license, we provide you an example of an infringing system (of at least certain claims of the patents) below in the form of a brief checklist that you can use to determine if your system is one for which you should contact us about a license. If you can answer "YES" to each question under the scenario below, then you should contact us.

Yes	No	**Internetworking of Scanner/MFP and Email**
☐	☐	1. Does your company use document scanning equipment that is network addressable (*i.e.*, it has an IP address and can communicate on your network);
☐	☐	2. Does your company use Microsoft Exchange/Outlook, Lotus Domino/Notes or a comparable system for company email;
☐	☐	3. Are at least some of your employees' email addresses loaded into the scanner, so that you can select to whom you wish to send a scanned document by email; or, alternatively, can you manually input an employee's email address into the scanner to whom you wish a scanned document to be sent; and
☐	☐	4. Can you cause your scanner to transform your paper document to a .pdf file, and have it automatically transmitted to one or more of your employees by email. By automatically, we mean that pressing a "Start" or "Go" button instigates both the copying of the document and the automatic transmission of the document to its intended destination (such as a Microsoft Outlook email inbox)