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EXECUTIVE SUMMARY FOR THE SALE OF

Document Processing Solutions

By GOOGLE

24 ASSETS TOTAL

EXECUTIVE SUMMARY FOR THE SALE OF

Document Processing Solutions

11 Families, 17 US Patents and 7 other corresponding family members in 6 different jurisdictions

Patent Number	Patent Title	Priority Date	Issue Date	Expiry Date	Bwd/ Fwd Citations
FAMILY 1					
US7340685	Automatic reference note generator	Jan 12, 2004	Mar 4, 2008	Aug 20, 2025 (PTA586)	13/66
US 8276090	Automatic reference note generator	Jan 12, 2004	Sep 25, 2012	Mar 31, 2026 (PTA 809)	123/26
US9514108	Automatic reference note generator	Jan 12, 2004	Dec 6, 2016	Oct 7, 2026 (PTA 999)	143/0
FAMILY 2					
US 7552383	Method for efficiently processing comments to records in a database, while avoiding replication/save conflicts	Jun 23, 2005	Jun 23, 2009	Jun 22, 2025	14/19
US 8266520	System and computer program product for efficiently processing comments to records in a database, while avoiding replication/save conflicts	Jun 23, 2005	Sep 11, 2012	Jul 29, 2027 (PTA 766)	4/6
US 8276062	System and method for efficiently processing comments to records in a database, while avoiding replication/save conflicts	Jun 23, 2005	Sep 25, 2012	Sep 11, 2027 (PTA 810)	4/3
US 9424553	Method for efficiently processing comments to records in a database, while avoiding replication/save conflicts	Jun 23, 2005	Aug 23, 2016	May 8, 2027 (PTA 684)	101/1
FAMILY 3					

US 9268560	Displaying dependent files for computer code in a tabbed-application user interface	Aug 31, 2012	Feb 23, 2016	Nov 25, 2032 (PTA 86)	18/3
FAMILY 4					
US8904290	Non-hierarchical multi-hash table model for menu data representation	Jun 26, 2012	Dec 2, 2014	Jul 30, 2033 (PTA 399)	7/1
FAMILY 5					
US 7346853	Online learning monitor	Jan 12, 2004	Mar 18, 2008	Jul 21, 2025 (PTA 556)	14/44
FAMILY 6					
US 7644353	Systems and methods for streamlined interactions with document services from mobile computing applications	Oct 16, 2002	Jan 5, 2010	Dec 26, 2023 (PTA 436)	11/15
FAMILY 7					
US 7310781	System and method for content and information transfer between program entities	Jun 5, 2003	Dec 18, 2007	Aug 8, 2025 (PTA 795)	5/104
FAMILY 8					
US7222296	Configurable display of web site content	Jan 17, 2001	May 22, 2007	Feb 16, 2023 (PTA 760)	15/4
FAMILY 9					
US 7010746	System and method for constraint-based document generation	Jul 23, 2002	Mar 7, 2006	May 2, 2024 (PTA 649)	32/111
US 7107525	Method for constraint-based document generation	Jul 23, 2002	Sep 12, 2006	Jan 30, 2024 (PTA 556)	60/127
CA 2435731	System and method for constraint-based document generation	Jul 23, 2002	Jun 17, 2008		

EP 1387290A2	System and method for constraint-based document generation	Jul 23, 2002			9/6
MX PA03006530A	System And Method For Constraint-based Document Generation	Jul 23, 2002			
BR0302455A	System And Method For Constraint-based Document Generation	Jul 23, 2002			
FAMILY 10					
US 6757867	Method and system in an electronic spreadsheet for adding or removing elements from a cell named range according to different modes	Jan 6, 2000	Jun 29, 2004	Aug 5, 2021 (PTA 242)	6/66
EP 1139249	Method and system in an electronic spreadsheet for adding or removing elements from a cell named range according to different modes	Jan 6, 2000	Feb 25, 2004		3/0
DE 60008498	Method and system for adding and deleting items in a range of identified and cells according to various methods in an electronic spreadsheet	Jan 6, 2000	Dec 2, 2004		
FAMILY 11					
US 6616704	Two step method for correcting spelling of a word or phrase in a document	Sep 20, 2000	Sep 9, 2003	Dec 7, 2020 (PTA 78)	6/41

Evidence of Use:

This portfolio is believed to cover the following products/services:

1. Online Document (Word Processor/ Spreadsheet) Processing Solutions
2. Spell Check Functions in any Software
3. Constraint based document generation
4. Online Content Management / Sharing Solutions
5. Automatic Webpage Generation Solutions

Encumbrances: There are some minimal existing encumbrances on the portfolio, including obligations with respect to LOT Network (<http://lotnet.com>), and any sale is subject to a license back to the seller in accordance with industry standards. More details can be shared with serious buyers under NDA.



Pricing Guidance: We will be happy to share our pricing guidance for an all cash sale to interested buyers.

Submission Deadline: None. Offers will be treated in the order they are received.

***Important Disclaimer:** This document includes information regarding the sale of a valuable patent portfolio. The information, data, and charts are provided only for each prospective buyer's use in independently evaluating the portfolio. The discussion of the use or applicability of the portfolio is only for illustrative purposes. This document and any documents exchanged during the sales process are not intended to be, and should not be interpreted as being, a notice of infringement, any form of accusation of infringement, or any opinion regarding the actual use of the patent portfolio.*

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EXECUTIVE SUMMARY

1. The Opportunity

Tangible IP, LLC is a leading patent brokerage firm focusing on high value, high quality portfolios with over 2500 assets sold since inception. We are Google LLC's exclusive agent for divesting the patent portfolio described in this document pertaining to the "**Document Processing and Webpage Building Solutions**" market. With this portfolio, we offer an unprecedented opportunity for interested parties. Commercial industry buyers may obtain strategic offensive and defensive positions with this portfolio.

2. Market Relevance and Trends

The patents and the patent applications in the offered patent portfolio describe technologies and solutions for constraint-based document processing. In particular, the claimed technologies of the portfolio are related to:

- transferring data from one file to another
- processing of comments in the documents
- automatic generation of webpages
- streamlining interactions between document services on mobile and servers
- comment/change tracking in the documents
- processing of spreadsheets
- auto-correction of spelling in computer software.

The technologies explained in the patent portfolio find applications for:

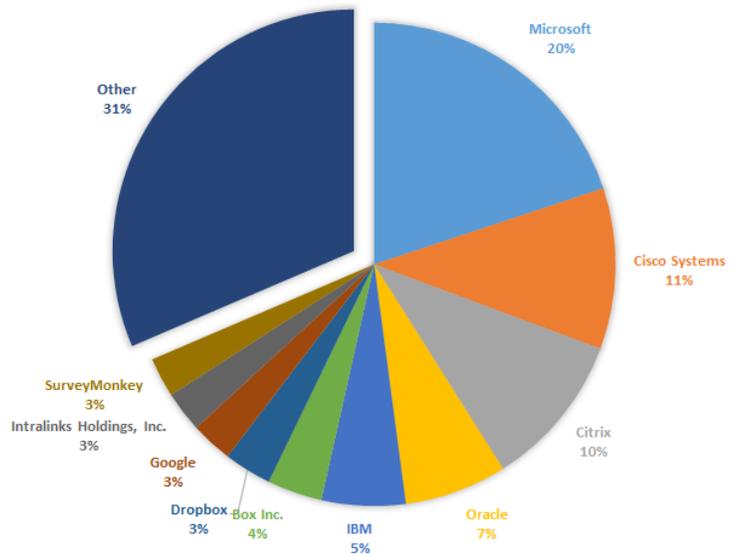
- enterprise collaboration software
- online document processing solutions
- online content management/sharing solutions
- automatic webpage generation solutions.

According to a [2015 study by Global Market Insights](#), the *Collaboration Software market* size will grow at a 13% Compound Annual Growth Rate (CAGR) from 2016 to 2024 and **exceed \$8.5 billion USD by 2024**. The report states that unstructured and ad-hoc collaboration with structured content-centric

business process and technological innovations will drive the future growth of the domain. Also, with the growth of cloud computing, the collaboration software market will increase in the near future, since these solutions provide a secure online environment for those who engage in team activities or collaborate with others on a common and centralized platform.

A 2016 [study by MarketsAndMarkets](#) estimates that the *Enterprise Collaboration market* shall grow from \$26.68 billion USD in 2016 to **\$49.51 billion USD by 2021**, at a CAGR of 13.2%. Enterprise collaboration solutions and services are used across diverse industrial verticals, such as:

- Banking, Financial Services, and Insurance (BFSI)
- the public sector
- healthcare
- energy & utilities
- retail
- IT & telecom
- travel & hospitality
- transportation & logistics
- education.



Key Growth Drivers are:

- extensive usage of social networking websites
- higher penetration of smartphones, and
- the emerging trend for improved enterprise efficiencies.

Cloud deployment is expected to be the largest contributor to the enterprise collaboration market during the forecast period. The adjoining diagram shows the market share in 2015 of the leading companies in this space.

According to a [2017 report by MarketResearch.com on Global Website Builders](#), website builder sales will reach about \$1.547 billion USD in 2017 from \$995 million USD in 2012 around the world, with the CAGR of 9.22%. The US is one of the largest consumption countries of website builders in the world

and it will continue to grow over the next few years. The US market accounted for roughly 40% the global market in 2016, while Europe accounted for 21%, and Japan accounted for 10%.

Per a [report by IBISWorld](#), from 2012 to 2017, website creation software industry revenue is projected to have significant growth as digital content and delivery have become essential to consumers and businesses. Increasing broadband penetration with high speed mobile networks, penetration of smartphones in the market and changing consumer behavior have all fueled rapid growth in the number of websites and how the consumers interact with them. From 2017 to 2022, industry performance is expected to remain strong with online services becoming more integrated into American lives with website creation software offering a less costly alternative to creating an online profile.

3. The Company

Google LLC (formerly, Google Inc.) holds all the patents in the offered patent portfolio. In 2015, Google reorganized its various interests, products, and services as a conglomerate called Alphabet Inc. Alphabet is listed on various stock exchanges and has revenue of over \$90 billion.

Google specializes in internet-related services and products. The company has a range of services and products related to email solutions, online advertising technologies, search, social networking solutions, productivity solutions, consumer services, cloud services, cloud computing, mobile OS and solutions, software, hardware, etc.

4. The Patent Portfolio

The offered patent portfolio, which is currently owned by Google consists of **11** distinct patent families. The patents in the offered patent portfolio describe technologies and solutions for:

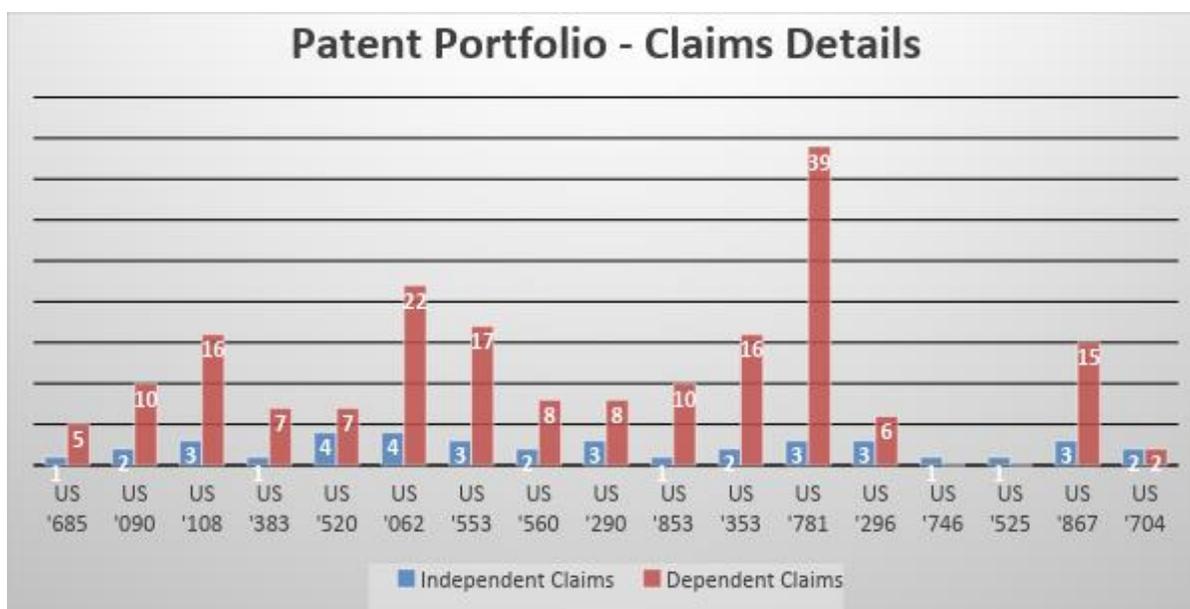
- constraint-based generation of documents,
- enterprise level collaboration for software & documents,
- transferring data from one file to another,
- processing of comments in documents,
- automatic generation of webpages,

- comment / change tracking in documents,
- streamlining interaction between document services on mobile and servers,
- processing of spreadsheets, and
- auto-correct of spellings in the documents.

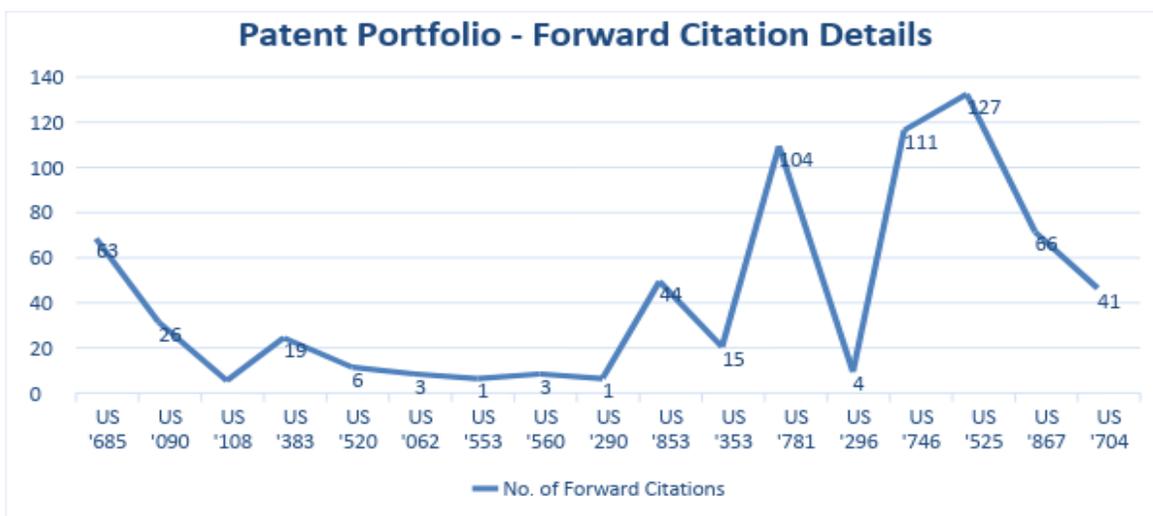
The 11 distinct patent families of the offered patent portfolio, presently, comprise a total of **17 active US patents** and 6 other patents and applications in 5 other jurisdictions. The 6 other assets comprise one patent in each of EP, Germany and Canada jurisdictions and one patent application in each of Mexico, Brazil and European jurisdictions. All 11 patent families are enforceable in the US. The ninth patent family is enforceable in two geographies – the US and Canada; while the tenth patent family is enforceable in three geographies – the US, Europe and Germany. The remaining nine patent families are currently enforceable in the US only.

The US patents within the offered patent portfolio have **227 issued claims**, which include **39 independent claims** and 188 dependent claims. The EP patent of the offered patent portfolio has 11 issued claims, which include one independent claim.

The chart provided below depicts the number of claims (independent and dependent) of each active US patent in the offered patent portfolio.



The 17 US patents in the offered patent portfolio have received **(634) forward citations** by patents and patent applications from other companies in aggregate. US Patent '781, US Patent '746 and US Patent '525 have 104, 111 and 127 forward citations respectively. Several companies, e.g. Microsoft, IBM, Apple, Xerox, Hewlett Packard, Sony, Canon, Samsung, Disney, Sony Ericsson, NTT Docomo, and others have cited the patent portfolio multiple times. The chart provided below depicts a trend showing the number of forward citations of each patent / patent application of the offered patent portfolio.



5. Detailed Portfolio Review

The patent portfolio describes technologies and solutions for constraint-based document processing, automatic webpage generation and auto correction of spelling errors in the documents.

The following shows the technologies claimed by various patent families of the portfolio:

Family Number	Family Technology Description
1	Methods and systems for automatic generation of reference note which is used for transfer of information from one file to another
2	Various embodiments for displaying and processing of comments in a document

Family Number	Family Technology Description
3	Solutions which clearly indicate changes made in the dependent files of a primary program file used for computer systems
4	Various techniques for providing different sets/versions of sub-menu items for an application which is accessible through a GUI
5	Methods and systems which are used for monitoring the activities of a person who is quoting verbatim information in an electronic file
6	Multiple embodiments related to streamlined interactions between document services by linking diverse applications on a mobile computing device to a document server/repository
7	Multiple embodiments that allow transfer of content between two different computer files
8	Methods and systems which are aimed at online website management, i.e. changing pages of websites
9	User-inputted constraint-based generation of documents
10	Multiple embodiments which allow processing of data in a multi-dimensional spreadsheet comprising a plurality of cells and ranges.
11	Method for correcting the spelling of a word or phrase in a document

Family 1

The first family of the offered patent portfolio includes the following three patents:

- ❖ **US Patent 7,340,685** ([Automatic reference note generator](#)) was filed on January 12, 2004 and has a priority date of January 12, 2004. The patent and its corresponding patent application have been **cited 66 times** by patents / patent applications from companies like Apple, IBM, Google, Microsoft, Xerox, Accenture, SAP, and others.

US Patent '685 claims methods and systems for automatic generation of a reference note. The invention is related to the transfer of information from one file to another in a networked multi-tasking computer system. The claimed invention provides a user interface which allows a user to provide inputs that specify information (or user selected text) that is to be inserted from a source document to a specific insertion point in a destination document. The invention then automatically copies the selected text to a transfer buffer. The system also automatically captures data indicative

of the source document. The system then generates a reference note containing the copied data and the information associated with the source of the copied data in the destination document.

- ❖ **US Patent 8,276,090** ([Automatic reference note generator](#)) was filed on December 20, 2007 and has a priority date of January 12, 2004. The patent and its corresponding patent application have been **cited 26 times** by patents / patent applications from companies like IBM, Google, Samsung, Microsoft, LG, Hewlett Packard, and others.

US Patent '090 expands on the invention – reference note generation – which is claimed in the '685 patent. Patent '090 claims multiple embodiments of a system which allows a user to copy information from a source document to a specified insertion point into a destination document through a single user interface. The claimed systems comprise computer programs stored in the memory to facilitate the generation of reference notes which are responsible for copying the data from a source document to a destination document.

- ❖ **US Patent 9,514,108** ([Automatic reference note generator](#)) was filed on August 10, 2012 and has a priority date of January 12, 2004.

US Patent '108 is an extension of the ideas claimed in the two patents of this family. The patent provides a single user interface for copying data from a source document to a destination document. The claimed invention receives user inputs for copying information from a source document through the said user interface. The information along with the captured source information is then copied into a transfer buffer. Consequently, a reference note comprising all the relevant details is generated, and this reference note results in the information being copied at the desired insertion point in the destination document. The invention also ensures that the user does not have to go back to the first user interface to enable the transfer of information into the destination document.

Family 2

The second family of the offered patent portfolio includes the following four patents:

- ❖ **US Patent 7,552,383** ([Method for efficiently processing comments to records in a database, while avoiding replication/save conflicts](#)) was filed on June 23, 2005 and has a priority date of June 23, 2005. The patent and its corresponding patent application have been **cited 19 times** by patents / patent applications from companies like IBM, Google, Microsoft, Sony, Social Commenting, and others.

US Patent '383 is related to computer programs that facilitate sharing documents between multiple users in a computer network. The patent mainly focuses on the displaying and processing of comments in a document. The document provides a graphical user interface which allows a user to enter comments in the document. The claimed invention creates a new claims document in which all the comments associated with the parent document are stored. The comments are displayed in a specific region of the parent document. The claimed invention also allows a user to lock the parent document so that no further comments can be added in the parent document. Upon locking the parent document for new comments, all the comments from the multiple comment documents are loaded into a specific region of the parent document and all the comment documents are deleted by the system.

- ❖ **US Patent 8,266,520** ([System and computer program product for efficiently processing comments to records in a database, while avoiding replication/save conflicts](#)) was filed on January 16, 2009 and has a priority date of June 23, 2005. The patent and its corresponding patent application have been **cited 6 times** by patents / patent applications from companies like Disney Enterprises, Google, Avnet, BSP Software, and others.

US Patent '520 is an extension of the idea – displaying and processing of comments in a user document – claimed in patent '383. The '520 patent claims multiple embodiments of a computer program which allows display of comments in a document stored on a computer system. The claimed system provides a GUI to accept comments in a parent document and stores the received comments in multiple comment documents. When the parent document's state is changed from "Accept Comments" to "No More Comments", the system deletes all the comment documents and displays the received comments in a specific region of the parent document.

- ❖ **US Patent 8,276,062** ([System and method for efficiently processing comments to records in a database, while avoiding replication/save conflicts](#)) was filed on January 16, 2009 and has a priority date of June 23, 2005.

US Patent '062 claims methods and systems for processing of comments associated with a parent document. The claimed invention allows for storage of comments for a document in a comments document which is separate from the parent document. The parent document can be present in either of the two states – receive comments or not receive comments. Upon detecting that comments can no longer be received in the parent document, the claimed invention copies all the comment from the comment documents into the parent document and deletes all the comment

documents. The parent document along with the all the comments in the parent document are then displayed in the same GUI to the end users.

- ❖ **US Patent 9,424,553** ([Method for efficiently processing comments to records in a database, while avoiding replication/save conflicts](#)) was filed on September 11, 2012 and has a priority date of June 23, 2005.

US Patent '553 claims multiple embodiments of an invention which allows accepting comments, tracking multiple comments / issues, and displaying those comments / issues to multiple users through a GUI. The claimed invention comprises an issue tracking database where multiple issues are tagged. The document users are allowed to enter comments related to the issue records. The system allows existence of multiple comment records for a single issue. Upon receiving an indication from a user to close the issue record and prevent creation of new comments related to that issue record, the system creates a consolidated comments document comprising all comments related to that record; simultaneously, all the comment records are deleted from the system.

Family 3

The third family of the offered patent portfolio includes one active US patent:

- ❖ **US Patent 9,268,560** ([Displaying dependent files for computer code in a tabbed-application user interface](#)) was filed on August 31, 2012 and has a priority date of August 31, 2012. The patent and its corresponding patent application have been **cited 3 times** by patents / patent applications from IBM Corp.

US Patent '560 describes methods and systems which are applicable for program/code development for computer systems. The invention is aimed at indicating changes to dependent files of a primary program file. The claimed method/system receives details of a first change to the primary program file. Subsequently, requisite changes which are related to the first change are made in all dependent files of the primary program file. The claimed invention further uses an identifier to depict those dependent programs which have been changed in response to the first change in the primary program file and another identifier to depict those in which no changes have been made. The two identifiers are represented using vastly dissimilar text styles in the document editor for the program files.

Family 4

The fourth family of the offered patent portfolio includes one active US patent:

- ❖ **US Patent 8,904,290** ([Non-hierarchical multi-hash table model for menu data representation](#)) was filed on June 26, 2012 and has a priority date of June 26, 2012.

US Patent '290 claims various techniques for providing different sets/versions of sub-menu items for an application which is accessible through a GUI. The sub-menu items are a part of the main menu and have state data which is used by different functions to perform specific actions. The claimed invention generates indices from the menu items and stores the indices with their corresponding functions in a table. The invention also generates a second table into which a portion of the indices are stored. The portion defines a set of sub-menu items and corresponds to a particular state of the data. When an operation is to be performed, an index for the subset of menu items is used to determine state data corresponding to the index in the second table, and the index is used to determine a function corresponding to the index in the first table.

Family 5

The fifth family of the offered patent portfolio includes the following patent:

- ❖ **US Patent 7,346,853** ([Online learning monitor](#)) was filed on January 12, 2004 and has a priority date of January 12, 2004. The patent and its corresponding patent application have been **cited 44 times** by patents / patent applications from companies like IBM, Apple, Google, Sony Ericsson, and others.

US Patent '853 is related to graphical user interfaces and data exchange between files in a multi-tasking computer system. The claimed invention is used for monitoring the activities of a person who is quoting verbatim information in an electronic file. The invention describes a GUI which allows a user to select a first insertion point in a destination document for placement of the verbatim information in the file. The invention, subsequently, provides a source GUI which allows a user to select text to be transferred from a source GUI to the designated insertion point in the destination document. Upon receiving the user selection of content, the invention automatically copies the selected text to the insertion point in the destination document. Some attributes of the source data are also copied and recorded while copying the selected text data and the same source reference data is displayed in the destination document. The source reference data and the user's identity data may further be used to automatically generate a monitor report.

Family 6

The sixth family of the offered patent portfolio includes one active US patent:

- ❖ **US Patent 7,644,353** ([Systems and methods for streamlined interactions with document services from mobile computing applications](#)) was filed on October 16, 2002 and has a priority date of October 16, 2002. The patent and its corresponding patent application have been **cited 15 times** by patents / patent applications from companies like Sony Mobile, Sony Ericsson, NTT Docomo, Huawei Technologies, Inedible Software, Ricoh, and others.

US Patent '353 claims multiple embodiments of an invention that allows streamlined interactions between document services by linking diverse applications on a mobile computing device to a document server/repository. The claimed invention describes receiving a document reference of an electronic document by either opening a second document on the mobile device or by opening a document reference depository on the mobile device. The electronic document is linked to the applications on the mobile device. These documents are not stored on the mobile device, rather they are present/accessible through the document repository on a remote server. Upon receiving the selected document reference and the action to be performed on it, the mobile device invokes a document services interface which allows the user of the mobile to execute actions on the selected document.

Family 7

The seventh family of the offered patent portfolio includes one active US patent:

- ❖ **US Patent 7,310,781** ([System and method for content and information transfer between program entities](#)) was filed on June 5, 2003 and has a priority date of June 5, 2003. The patent and its corresponding patent application have been **cited 104 times** by patents / patent applications from companies like IBM, Google, Microsoft, Nokia, RPX Corp, Sony, Samsung, Apple, Adobe, Siemens, Honeywell, Paypal, and others.

US Patent '781 claims multiple embodiments of an invention that allows transfer of content between two different computer files. The claimed invention described allowing a computer system to receive, through a GUI, an insertion point in a destination document. Then, the user can select, through another GUI, the data to be copied from a source file to the destination file. The invention automatically copies the selected content to a transfer buffer and simultaneously copies the selected content at the designated insertion point in the destination document. The user is not required to do any subsequent action in the GUI to enable the automatic copying of data.

Family 8

The eighth family of the offered patent portfolio includes one active US patent:

- ❖ **US Patent 7,222,296** ([Configurable display of web site content](#)) was filed on January 17, 2001 and has a priority date of January 17, 2001. The patent and its corresponding patent application have been **cited 4 times** by patents / patent applications from companies like IBM, Oracle, and others.

US Patent '296 claims multiple embodiments of an invention directed to online website management, i.e., changing pages of websites. The patent describes methods and systems for generating webpage from data repositories. The claimed invention provides a form document to select location of data entries and a configuration document to select which data entries should be displayed on the webpage. The system then generates a data document which comprises the selected data entries to be displayed on the webpage. Upon receiving a request from a user to create the webpage, the system populates data entries from form and data documents into indicated locations of the configuration document which is then used to build the webpage. The system also allows the data document to be changed/manipulated (without any change in the form and configuration documents) based on the requests from multiple users requesting for the webpage through a web browser.

Family 9

The ninth family of the offered patent portfolio includes the following patents / patent applications:

- ❖ **US Patent 7,010,746** ([System and method for constraint-based document generation](#)) was filed on July 23, 2002 and has a priority date of July 23, 2002. The patent and its corresponding patent application have been **cited 111 times** by patents / patent applications from companies like Sony, Brother, Ricoh, Microsoft, HP, Digimarc, Adobe, Xerox, Oracle, Canon, and others.
- ❖ **US Patent 7,107,525** ([Method for constraint-based document generation](#)) was filed on July 23, 2002 and has a priority date of July 23, 2002. The patent and its corresponding patent application have been **cited 127 times** by patents / patent applications from companies like Xerox, Ricoh, Seiko Epson, Canon, Microsoft, HP, Adobe, and others.

US Patent '746 and the patent '525 claim a system for constraint-based generation of documents. The claimed system describes an input device which receives user specified constraints and a processor which identifies those document areas which have the constraints input by the user. The

processor also identifies document parameters and the value domains for those parameters that can be changed as per the input constraints. The processor then specifies layout constraints and content constraints which further constrains the values of the document parameters. As a final step, the processor determines the layout such that all the user specified constraints are met and then displays the document in the determined layout to the user.

- ❖ **CA Patent 2,435,731** ([System and method for constraint-based document generation](#)) was filed on July 18, 2003 and has a priority date of July 23, 2002.

CA Patent '731 also claims the same idea – constraint-based document generation, which has been claimed in the two US patents of the family. The CA patent claims both a system and method to display a given document based on multiple constraints provided by the user. The claimed invention implements the same steps described in the other family members of this patent.

- ❖ **EP Patent Application 1,387,290A2** ([System and method for constraint-based document generation](#)) was filed on July 23, 2003 and has a priority date of July 23, 2002. The patent application has been **cited 6 times** by patents / patent applications from companies like Xerox, HP, Deutsche Telekom, and others.
- ❖ **MX Patent Application PA 03,006,530A** ([System And Method For Constraint-based Document Generation](#)) has a priority date of July 23, 2002.
- ❖ **BR Patent Application BR0302455A** ([System And Method For Constraint-based Document Generation](#)) has a priority date of July 23, 2002.

The EP, MX and BR patent applications of this patent family also describe the same steps to achieve constraint-based generation and display of documents.

Family 10

The tenth family of the offered patent portfolio includes the following patents / patent applications:

- ❖ **US Patent 6,757,867** ([Method and system in an electronic spreadsheet for adding or removing elements from a cell named range according to different modes](#)) was filed on December 6, 2000 and has a priority date of January 6, 2000. The patent and its corresponding patent application have been **cited 66 times** by patents / patent applications from companies like IBM, Microsoft, Canon, Thales, Reuters, Fujitsu, Apple, and others.

US Patent '867 claims multiple embodiments of an invention which allows processing of a range summary cell in a multi-dimensional spreadsheet comprising a plurality of cells and ranges. The

claimed invention defines a range summary cell by specifying in a table a range summary cell address. The range summary cell address is updated in the table according to the updated cell range address. Further, the range summary cell is moved according to the updated range summary cell address. The cell range address is also updated in the table after addition or deletion of any spreadsheet element; consequently, the range summary cell address is also updated in the table according to the updated cell range address.

- ❖ **EP Patent 1,139,249** ([Method and system in an electronic spreadsheet for adding or removing elements from a cell named range according to different modes](#)) was filed on December 7, 2000 and has a priority date of January 6, 2000.
- ❖ **DE Patent 7,107,525** ([Method and system for adding and deleting items in a range of identified and cells according to various methods in an electronic spreadsheet](#)) was filed on December 7, 2000 and has a priority date of January 6, 2000.

EP Patent '249 and DE Patent '498 generally claim the same inventions claimed in the corresponding US patent of the family. The patents allow processing of range summary cells in a spreadsheet by defining a table comprising address and range of multiple range summary cells. The range and the address are continuously updated as and when there is any change in the cells of the spreadsheet.

Family 11

The eleventh family of the offered patent portfolio includes one active US patent:

- ❖ **US Patent 6,616,704** ([Two step method for correcting spelling of a word or phrase in a document](#)) was filed on September 20, 2000 and has a priority date of September 20, 2000. The patent and its corresponding patent application have been **cited 41 times** by patents / patent applications from companies like IBM, Microsoft, Apple, D&S Consultants, NEC, and others.

US Patent '704 claims a very fast method for correcting the spelling of a word or phrase in a document. The claimed invention executes the spelling correction in two steps. In the first step (the fast method), the invention applies a very fast approximate method for eliminating most candidate words from consideration; this is done without computing the exact edit distance between the given word whose spelling is to be corrected and any candidate word. In the second step (the slower method), the invention computes the exact edit distance between the word whose spelling is to be corrected and each of the few remaining candidate words. The combination of the two steps results in a method that is almost as fast as the fast-approximate method and as exact as the slower method.

6. Power Rankings

A. Detectability of Evidence of Use

The offered assets of the patent portfolio are related to technologies for constraint-based generation of documents, transferring data from one file to another, processing of comments in documents, automatic generation of webpages, comment / change tracking in documents, streamlining interaction between document services on mobile and servers, processing of spreadsheets, and auto correction of spellings in documents.

The majority of the patents in the offered patent portfolio describe both front-end and back-end operations of a computer software or program. It is easy to identify whether the overall feature being claimed in the patent portfolio is present in a potentially infringing product or not. Most of the front-end steps described in the claims of the patents can be easily identified from the features list and other publicly available information related to the product.

B. Lack of Prior Art

Most of the patents / patent applications of the offered patent portfolio claim a priority date prior to 2005. The first and fifth families have a priority date of 2004 while the second family has a priority date of 2005. However, the third and fourth families, which comprise one patent each, of the patent portfolio have a priority date of 2012. The remaining patent families have a priority date earlier than 2003. The majority of the patent families in the portfolio have a priority date of a period when the internet boom had just started and the trend of automatic webpage design and document processing features over a networked computer system was in an early and nascent stage. Further, web technologies enabling data exchange between mobile devices and remote computer servers were also in the early years of development. The significant increase in mobile device and networked computer usage along with improvements in wireless and mobile communication technologies took place well after 2004.

Most of the patents in the offered patent portfolio have a small number of forward citations and a large number of backward citations. The forward citations include citations from several prominent companies in the IT domain, document / webpage processing domain and other related space. This suggests the pioneering nature of the offered patent portfolio in its technology domain.

C. Commercial Maturity

Products and solutions offering online document processing, automatic webpage generation, comment tracking and program management are an integral part of the corporate world and in personal lives across the globe. The steady growth and adoption of web-browsers, document and spreadsheet solutions, various programming solutions, (Graphic User Interfaces) GUIs for webpage generation, and general productivity solutions make the technologies claimed in the offered patent portfolio very relevant.

Most of the major multinationals, e.g. Microsoft, Apple, Zoho, Google, Oracle, etc. provide online services for spell-check, spreadsheet processing, and other similar productivity solutions. Further, there has been a tremendous increase in the usage of cloud/web-based solutions for similar services. This has resulted in simultaneous actions by multiple users in a single file and different views for different users based on the constraints defined by each user. Robust and fast spell-check mechanisms have become an integral part of most web-browsers and productivity solutions across the globe. There has been increased demand and simultaneous adoption of technologies which enable quick generation and editing of webpages through fillable/editable forms for webpage.

As such, the demand for the types of technologies, in the offered patent portfolio, have already taken a huge leap in comparison to its state about a decade ago and growth is expected to continue at a tremendous pace. As a result, the offered patent portfolio will continue to appreciate over time as more companies adopt its underlying approach.

7. Encumbrances

All the patents in the offered patent portfolio were originally assigned to one of the four companies – IBM Corp, Xerox Corp, Google and Motorola Mobility LLC.

However, Google presently holds all the patents in the offered patent portfolio. There are some encumbrances on the portfolio, including obligations with respect to LOT Network (<http://lotnet.com>), and any sale is subject a license back to the seller in accordance with industry standards. More details can be shared with serious buyers under NDA.

8. Evidence of Use

Tangible IP's team of seasoned registered patent attorneys has prepared several industry representative claim charts for select patents in this portfolio. Any details as to evidence of use pertaining to a given patent in the portfolio on offer will be provided only to serious buyers under NDA.

9. Targeted Price

We will be happy to share our pricing guidance for an all cash sale to interested buyers.

10. Sale Structure and Submission Deadline

The portfolio is offered only to a limited number of potential buyers. There are no formal submission deadlines. Offers will be treated in the order received in writing. Assets will be taken off the market once a PPA has been executed and buyers will be given a reasonable period to complete the closing.

11. Contact Information

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