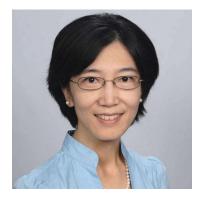


Patently Useful: Insider Knowledge Gleaned from Patent Attorneys

Evelyn Yang Garland, CT | Acta Chinese Language Services, LLC



Evelyn Yang Garland Chinese<->English

- Translator and interpreter for leading law firms
- ATA certified translator (Chinese<->English)
- Court certified interpreter
- BS: biological science (Fudan)
- MHS: health science (Johns Hopkins)
- MPS: conference interpreting (UMD)
- Certificate: IP Law (WIPO)

Types of patents

- •Design
- Plant
- Utility
 - Physics ("ICT")
 - Biology/chemistry ("BCP")

I will not discuss basic concepts, such as

- What is a patent
- What is a claim
- • •

"One Word in One Claim Worth \$891 Million"

Broadcom Corp. v. Qualcomm, Inc.

Source: Larry M. Goldstein, True Patent Value

U.S. Patent No. 6,714,983

MODULAR, PORTABLE DATA PROCESSING TERMINAL FOR USE IN A COMMUNICATION NETWORK

1. One or more circuits adapted for use in a mobile computing device comprising:

a terminal adapted to receive battery power for at least one of the circuits;

communication circuitry comprising a reduced power mode and being adapted to use a first wireless communication and a second wireless communication different from the first wireless communication to transmit data to access points, the communication circuitry reducing power by controlling the frequency of scanning for the access points; and

processing circuitry arranged to process data received from the communication circuitry.

What is a good patent?

- "There are, in fact, no 'bad' patents: just valid and invalid ones – or those that have been issued but do not withstand scrutiny."
- "90 percent or more of many significant high-tech portfolios are comprised of dubious patents which are used for leverage."

Bruce Berman, *The Puzzle That Is Patent Quality*, <u>https://www.wipo.int/wipo_magazine/en/2015/04/article_0004.html</u>

What is good patent translation?

What is good patent translation?

• Defensible



- 1. Unclear key claim terms
- 2. Roads not taken
- 3. Defective parallelism
- 4. Unnecessary limitation in the written description
- 5. Improper use of claim differentiation
- 6. Lack of claim mix
- 7. Improper mix of elements within a claim
- 8. Improper use of non-standard terminology
- 9. Incorrect reliance on the preamble
- 10. External events that destroy patent value

Source: Larry M. Goldstein, Litigation-Proof Patents

- 1. Unclear key claim terms
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Source: Larry M. Goldstein, Litigation-Proof Patents

1. Unclear key claim terms

- 1) No explanation
- 2) Conflicting explanations
- 3) Non-standard explanation
- 4) Explaining a key claim term with a single example

3. Defective parallelism

E.g.

Independent Method Claim: A method of <u>speech signal compression</u>, ...

Independent Apparatus Claim: An apparatus for <u>compressing an</u> <u>acoustical signal</u>...

U.S. 5,414,796

4. Unnecessary limitation in the written description

E.g. road vehicles vs. cars

8. Improper use of non-standard terminology

Standard: comprising, consisting of, consisting essentially of

Use with caution: having, characterized by/in that...

- Accuracy
- Ambiguity (intentional or unintentional) in source text
- Errors

• Accuracy

• Boat vs. ocean-going vessel

(12) United States Patent Caro et al.	 (10) Patent No.: US 8,327,631 B2 (45) Date of Patent: Dec. 11, 2012
(54) AIR POLLUTION CONTROL SYSTEM FOR OCEAN-GOING VESSELS	6,463,958B110/2002Schwing137/6156,647,711B111/2003Spiegel et al.60/2886,660,239B212/2003Nagji423/245.3
 (76) Inventors: Sal Caro, Camarillo, CA (US); Henning Ottsen, Ventura, CA (US); John Powell, Santa Clarita, CA (US) 	6,667,011 B1 12/2003 Munje et al. 422/173 6,863,874 B1* 3/2005 Twigg 423/210 6,941,746 B2* 9/2005 Tarabulski et al. 60/286 7,117,669 B2* 10/2006 Kaboord et al. 60/288

Clean Air Engineering Maritime Inc v. Advanced Cleanup Technologies Inc

• Accuracy (cont'd)

- Boat vs. ocean-going vessel
- (12) United States Patent Teboul
- DEVICE AND METHOD FOR FILTERING (54)

]	INTERNAL COMBI EXHAUST GASES A WITH SUCH A DEV	AND VEH		PPED	-	5,085,049 5,492,677 5,540,716 5,698,012	*	1
	In particula					_ /	hi	

is device is efficient, at low speeds and at high speeds, from the time of starting to the time of stopping the internal combustion engine of any motor vehicle whatsoever (car, boat, . . .), without choking the engine.

(10)	Patent No.:	US 6,185,934 B1
(45)	Date of Patent:	Feb. 13, 2001

5,012,641		5/1991	Travalee .
5,085,049	*	2/1992	Rim et al 60/274
5,492,677	*	2/1996	Yoshikawa 422/174
5,540,716	*	7/1996	Yamamoto 96/67
5,698,012	*	12/1997	Yoshikawa 96/47

• Accuracy (cont'd)

- Boat vs. ocean-going vessel
- Merriam-Webster: 1a: a small vessel for travel on water; 1b: ship
- Collins (American English): 1. a small, open water vehicle propelled by oars, sails, engine, etc.; 2. a large such vehicle for use in inland waters; an ore boat on the Great Lakes; 3. any large, seagoing water vehicle; ship: a term in popular use, but not by sailors

• • • •

• Accuracy (cont'd)

... the scope of claims in patent applications not solely on the basis of the claim language, but upon giving claims their broadest reasonable construction "in light of the specification as it would be interpreted by one of ordinary skill in the art." (MPEP 2111)

• POSITA/PHOSITA

- Accuracy (cont'd)
 - Boat vs. ocean-going vessel



**New eBook: MAINTENANCE AND TROUBLESHOOTING OF MARINE ELECTRICAL SYSTEMS

HOME » TYPES OF SHIPS » 7 DIFFERENCES BETWEEN A SHIP AND A BOAT

7 Differences Between a Ship and a Boat

By Raunek | In: Types of Ships | Last Updated on October 4, 2019

- A major difference between ship and boat is that of their areas of operation. Ships are vessels that are operated in oceanic areas and high seas. They usually include <u>cruise</u> <u>vessels</u>, naval ship, <u>tankers</u>, <u>container ships</u>, <u>RoRo ships</u>, and <u>offshore vessels</u>. They are mainly built for cargo/ passenger transportation <u>across oceans</u>.
- Boats in contrast, are operable in smaller/ restricted water areas and include ferrying and towing vessels, sail vessels, paddle vessels, <u>kayaks</u>, <u>canoe</u>, patrolling vessels etc. Boats are mainly used for smaller purposes and mainly ply in areas <u>near to the coast</u>.

• Ambiguity (intentional or unintentional) in source text

US 5,467,455A

9. A data processor within an integrated circuit package comprising:

an execution unit internal to the data processor;

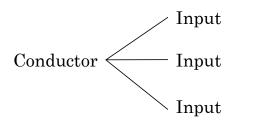
a plurality of external pins connected to the integrated circuit package, the plurality of external pins used to bidirectionally communicate logic bits to and from the data processor via an external bus;

a plurality of bus termination circuits, one bus termination circuit being coupled to one external pin of the plurality of external pins wherein each external pin is coupled to at least one bus termination circuit, the plurality of bus termination circuits providing data to or receiving data from the execution unit, each bus termination circuit in the plurality of bus termination circuits having an input for receiving a control signal; and

a conductor coupled to each input of each of the bus termination circuits in the plurality of bus termination circuits, the conductor providing the control signal wherein the control signal, when asserted, allows each bus termination circuit in the plurality of bus termination circuits to couple at least one circuit component to the bus to reduce signal reflection on the bus, the control signal, when deasserted, allows each bus termination circuit in the plurality of bus termination circuit s to decouple at least one circuit component from the bus.

• Ambiguity (intentional or unintentional) in source text

a conductor coupled to each input of each of the bus termination circuits



Conductor —— Input

Conductor _____ Input

Conductor_____Input

• Errors

• Errors are common

Defensible Patent Translation

- Know...
 - the field (POSITA)
 - some patent rules and practices
- Be...
 - a language geek
 - diligent in research
 - consistent!!!

• Keep up with the trend

• America's first patent, 1790



X000001 July 31, 1790

Whereas Samuel Replins of the bity of Philadelphia and State of Pensylvania hash discovered an Improv such Discovery, in the making of Oct ash and Ocarl ash by a mew apparates and Process, that is to say, in the making of Ocarl ash 1th by bu new ashes in a Furnace, 2th by dipolving and boiling them when so burnt in Water, 3th by drawing off and settling the day, and It by boiling the day into batto which them are the time Parlash; and also in the making of Ost. ash by fluxing the Parlash so made as a foresaid; which Openation of burning the paw ashes in a Turnace, preparatory to their Dipolition and boiling in Water, is new, leaves little Residuum; and proc in quantity of Salt : These are therefore in pursuance of the act initiated ". An Act to promote the Orograp of useful Acts", to grante to the said Tamuel Hopkins, his Heis, administrators and afrigas, for the Tum of fourtan Years, the sole and exclusive Right and Liberty of using and vending to others the said Discovery of burning the new asks previous to their being differed and boiled in Water, according to the twee him ton meaning. of the let a foresaid. In Testimony where of thave caused these Sellers tobe made patient, and the bal of the United States tobe huwer of figure Given undury Hand at the Bity of New York this thirty first Day of bely in the Grave of our Lord one thousand seven hundred & ninety.

The United States

City of New York July 31 th 1790. -I do hereby bertify that the foregoing Letters parent were delivered tome inpursuance of the act, intitales " an act to promite the Rogers of useful arts ; that I nined the same, and find them conformable to the said Met. Edm: Randolph Attoney General for the Minister of forthe Minister of forthe Minister of forthe Minister of forthe Minister of the Minister of

• Keep up with the trend (cont'd)

Patented June 1, 1869.

Thomas Edison's first patent in 1869, No. 90,646

UNITED STATES PATENT OFFICE.

THOMAS A. EDISON, OF BOSTON, MASSACHUSETTS, ASSIGNOR TO HIMSELF AND DEWITT C. ROBERTS, OF SAME PLACE.

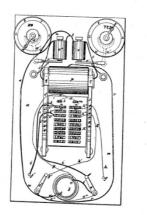
IMPROVEMENT IN ELECTROGRAPHIC VOTE-RECORDER.

Specification forming part of Letters Patent No. 90,646, dated June 1, 1869.

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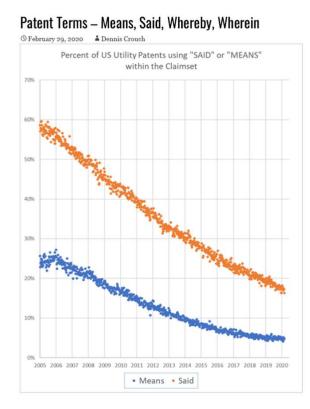
T. A. EDISON.

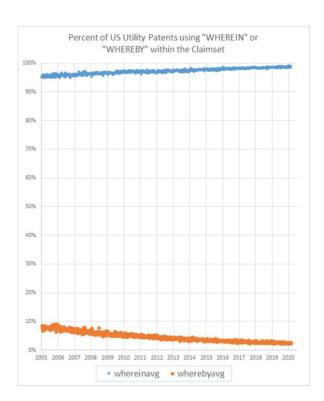
Electric Vote-Recorder:

Witnesses Caurted Majul

No. 90,646.

• Keep up with the trend (cont'd)





• Know what's important

E.g. device vs. apparatus

• Laugh about it

My English teachers would hate to see the claims I'm reviewing. Claims are the longest run-on sentences you'll ever write in your life. They break almost every grammatical rule there is in English. The only things grammatical about claims are that you start with a capital letter and end with a period.

— "Confession" of a patent examiner

Final Takeaway

- You are in a high-risk business
- Your clients worry about validity
- Do your clients a favor by delivering defensible translation
- Do yourself a favor by staying cool



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Evelyn Yang Garland egarland@actalanguage.com