

About “trivial” software patents: the IsNot case

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Further info: www.cwi.nl/~paulk/patents

The IsNot patent application *abstract*

- *A system, method and computer-readable medium support the use of a single operator that allows a comparison of two variables to determine if the two variables point to the same location in memory.*
- Application by lead developers of Microsoft's Visual Basic team

The Isnot Patent application

1 of 24 *claims*

- *A system for determining if two operands point to different locations in memory, the system comprising: a compiler for receiving source code and generating executable code from the source code, the source code comprising an expression comprising an operator associated with a first operand and a second operand, the expression evaluating to true when the first operand and the second operand point to different memory locations.*

The IsNot Patent Application *analysis*

- Hey, this is about `!=` in C, Java or C#!
- Or about `.NE.` in Fortran
- Or about `BNE` in assembler
- Isn't this prior art?
- Does MS really mean that they invented the inequality operator?

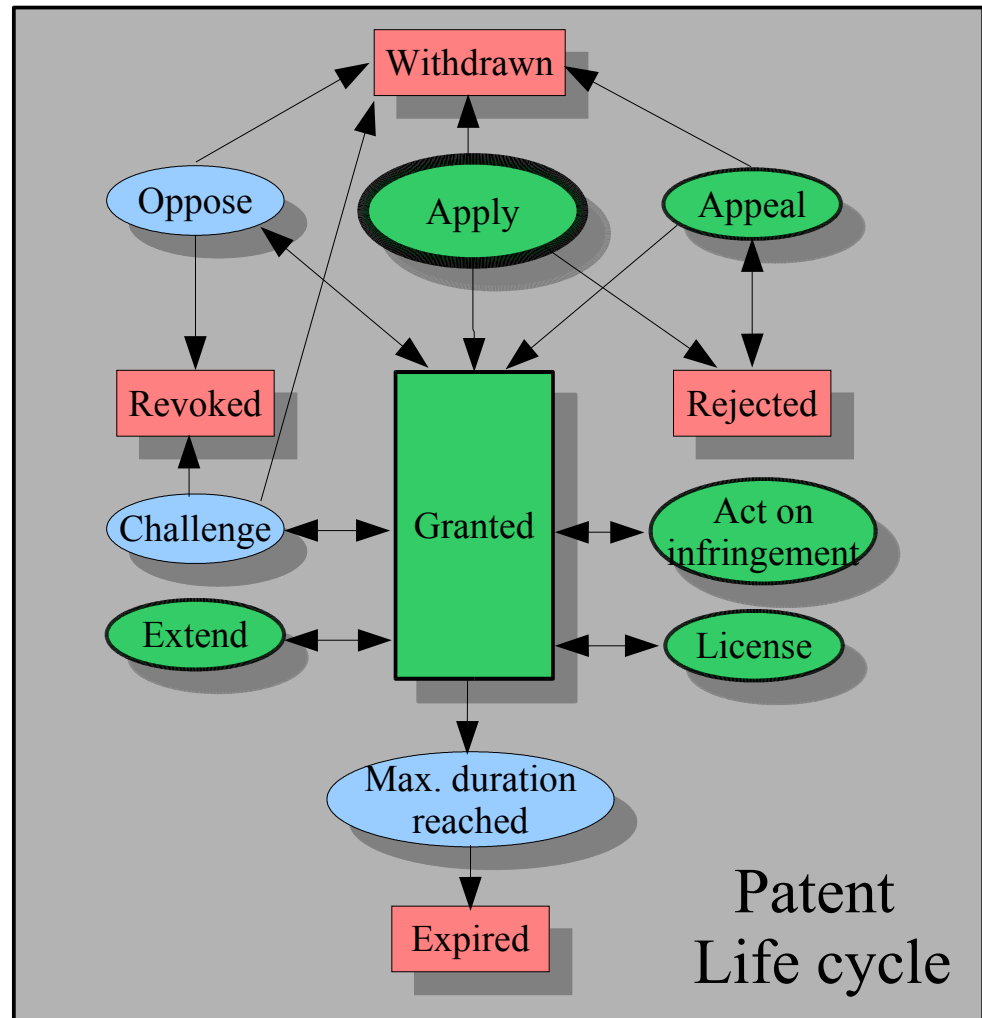
The IsNot Patent Application *analysis*

- Is there some hidden intention in this application?
- Is this about a hidden trick in the Basic compiler?
- Is the intention to challenge the patent system?
 - You must agree: **this is a beauty in its simplicity**
- We don't know!

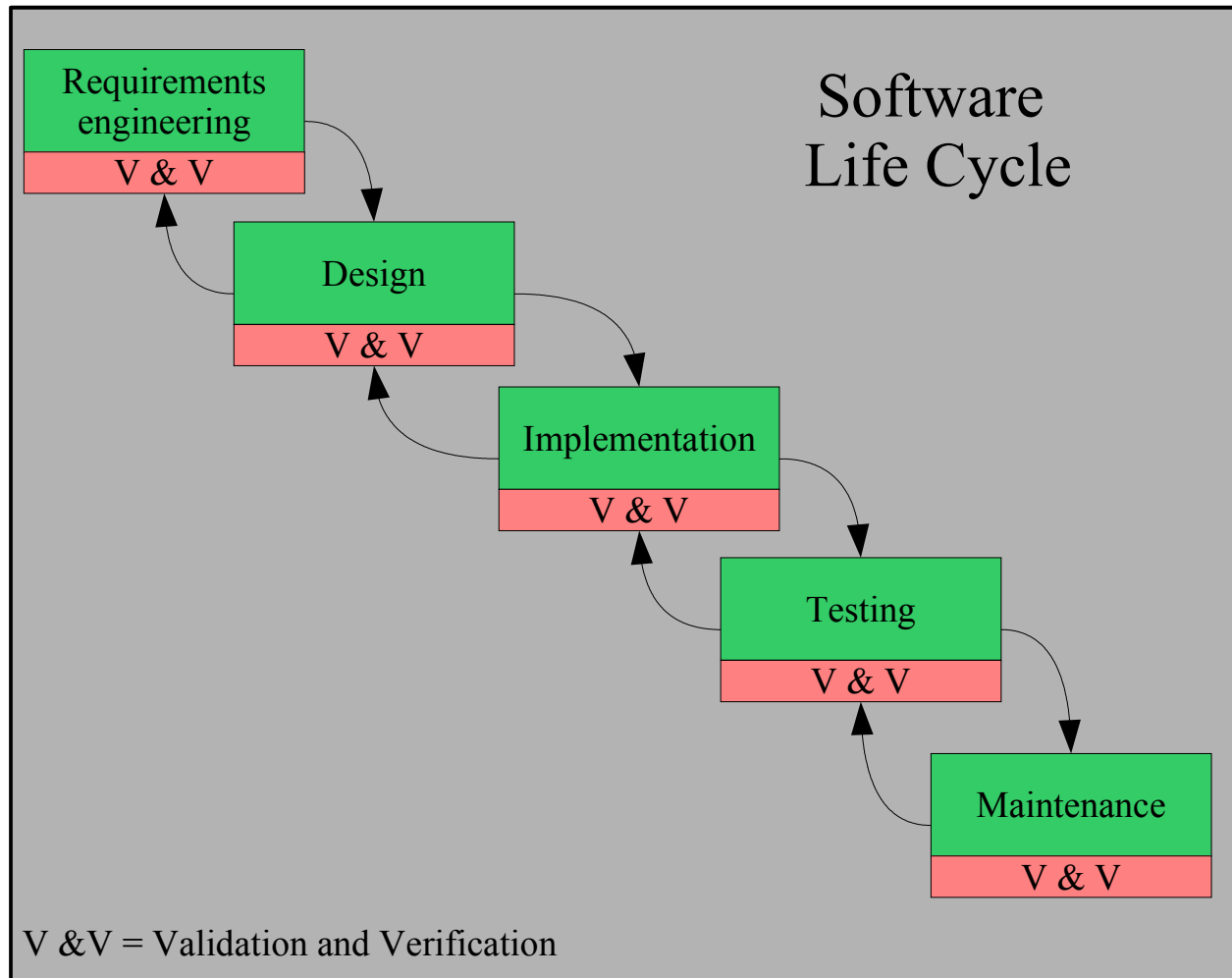
We have written an Open Letter to Microsoft to clarify this, see www.cwi.nl/~paulk/patents

How can we reconcile the patent system and the Software Engineering Life Cycle?

Patent Life Cycle

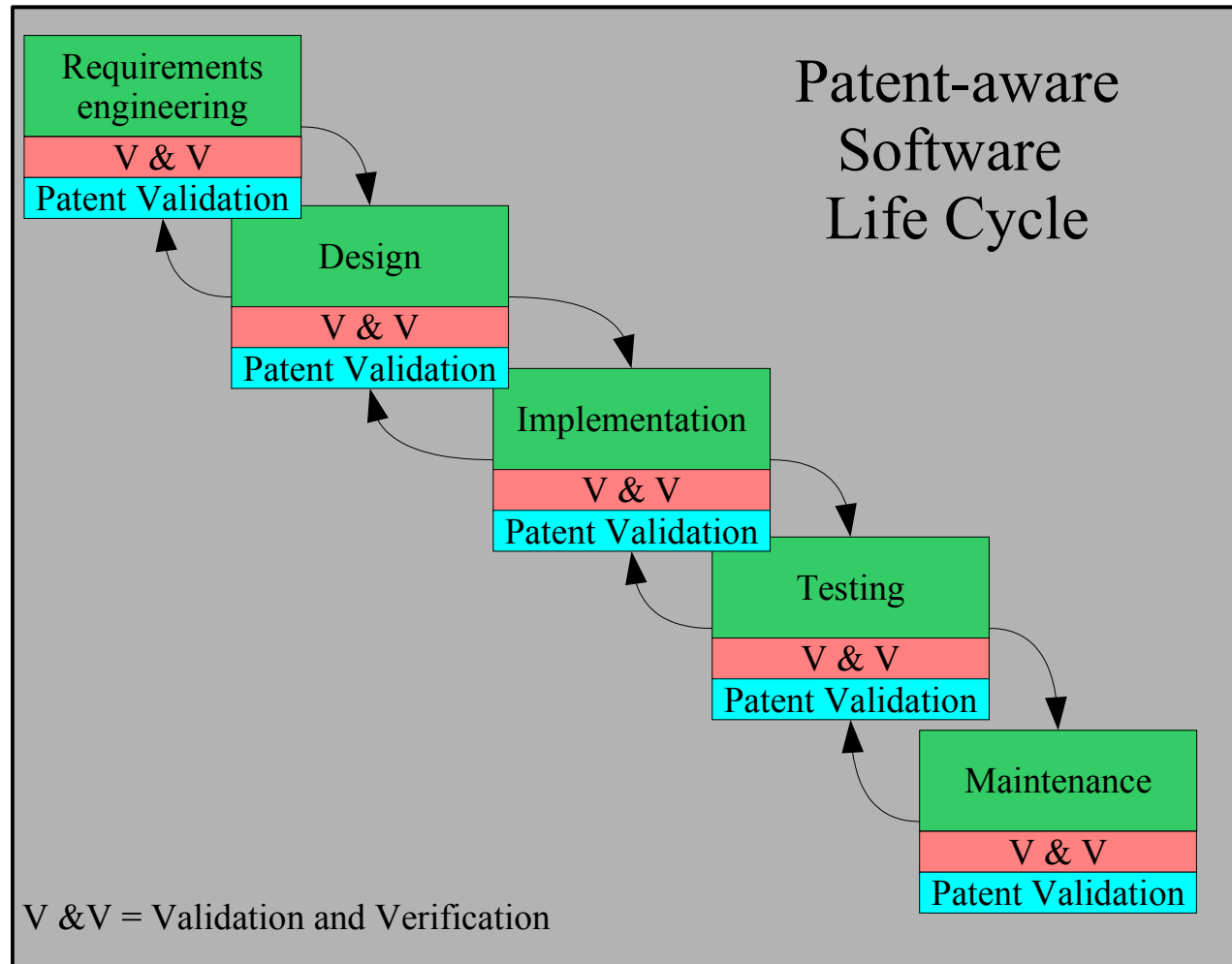


Software Life Cycle

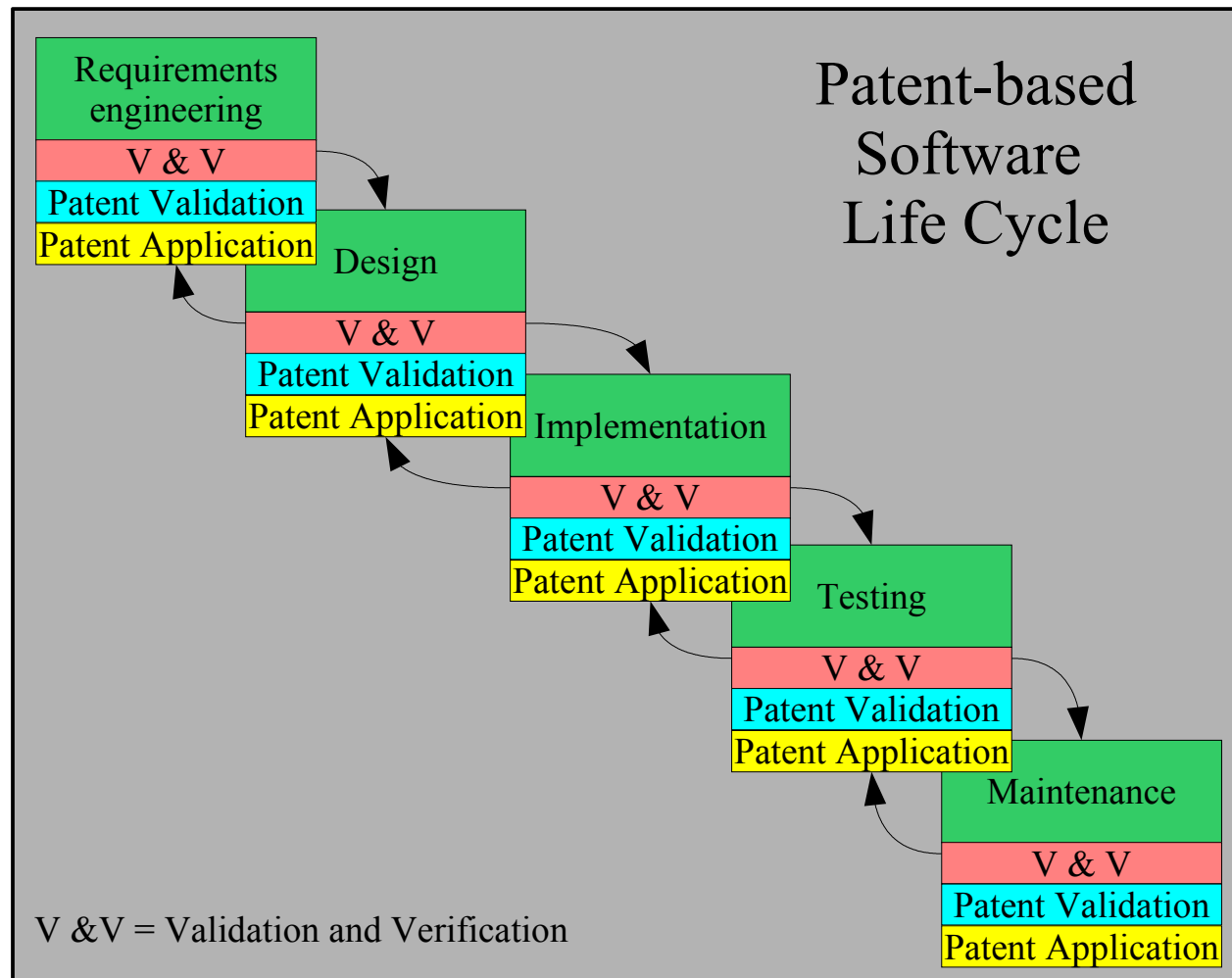


Patent-aware Software Life Cycle

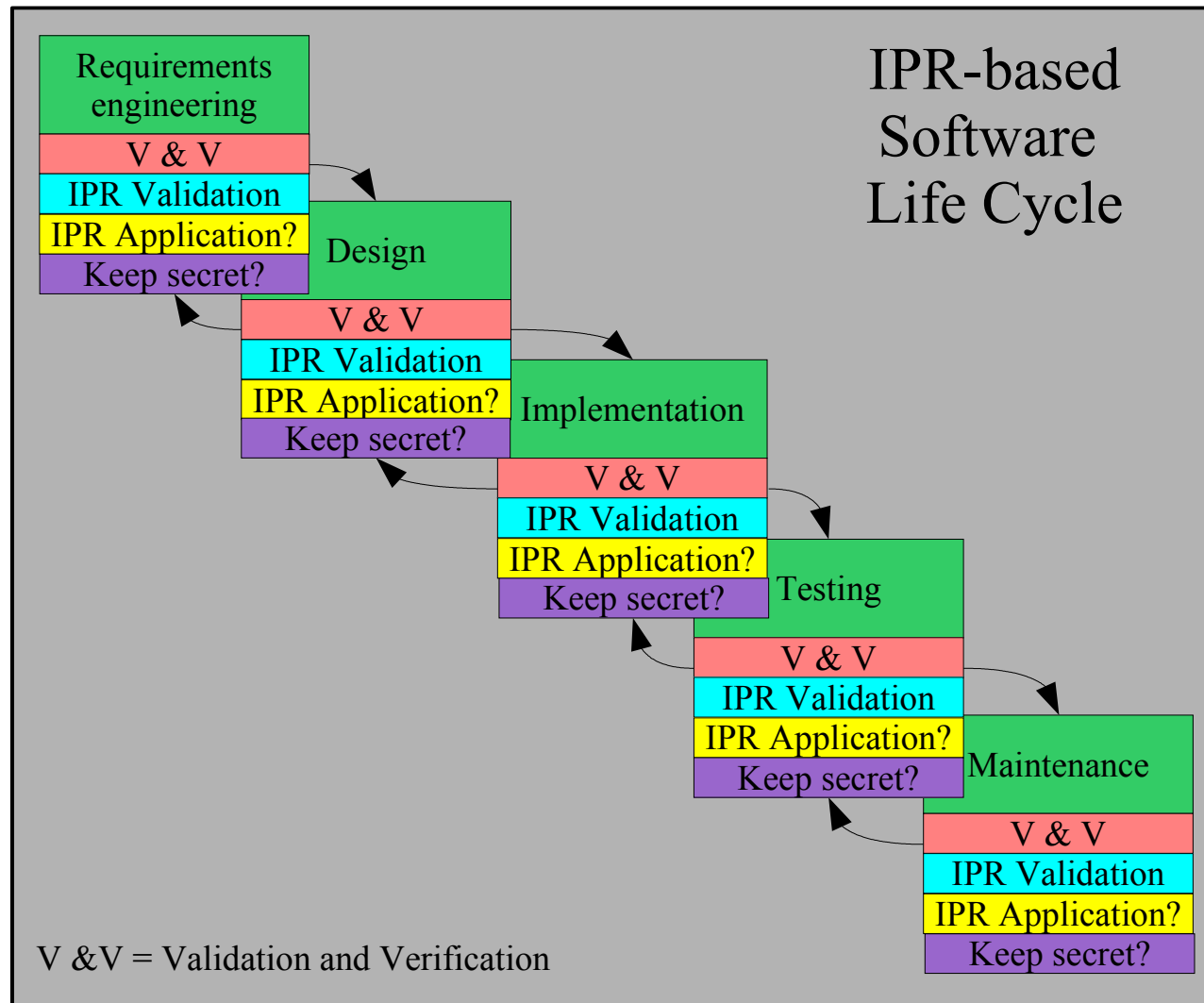
defensive



Patent-based Software Life Cycle *offensive*



IPR-based Software Life Cycle *offensive*



Observations

- Status of prior art and claims is unclear
- Software patenting badly needs input from software engineers and is a **topic for research**:
 - formalization of prior art and claims
 - inventory of all prior art related to software
 - alternative patenting systems
 - automatic infringement detection
- Publicly analyse and annotate software patents:
Gauss project (<http://gauss.ffii.org/GaussFrontPage>)

Time for Discussion

OSS =

Open source: Sense and Simplicity for the software engineer
(suggested by a Philips researcher)



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