

The Story of Your Invention

Invention Log

What is an invention?

An invention is something new that enables us to solve a problem or do something better or easier.

The purpose of this Invention Log

All stories have an ending. In this case, the ending of what you are doing is your invention. But all stories also have a beginning and middle. The purpose of this Invention Log is to tell the entire story of your invention. In it, during every step you take in making your invention, you will record what you did, why you did it, and how you did it. This Invention Log is an important part of the invention process and is a complete and accurate record of the ideas, plans, and processes by which the invention was created. Invention Logs can be used by students to prove they came up with the idea and invention. Oftentimes, they are used as part of the patenting process.

How to use this Invention Log

The Invention Log is not a book report that is created after you are done. Rather, it is a diary that is continuously filled in as you work on your invention. Follow the steps of the invention process and fill out the various pages as you work on them. When you are done with a page, print your name and the date at the bottom. If you need extra space for any section, make copies of the Blank Page (Page 17) and use that for any purpose. Once you are done, put the pages in the order in which you did them and staple them to make a complete Invention Log. This log will also be used as part of the final presentation and needs to be filled in using complete sentences (except for things like a list of materials). Teams share one Invention Log and should attach signatures of all inventors.

The name of the invention: WIZEN

The problem that it solves: There are many wires in between my console and desktop and when I remove one wire, I can accidentally remove a different wire. It also looks like a mess and it takes a lot of space. My invention fixes all those problems.



Statement of Originality

I promise that the ideas in this Invention Log are my own. (If a team, all should complete.)

Inventor Name(s): Asishram Reddy Tamalampudi

Signature(s): T. Asishram Reddy

Date: 12/12/19

Grade: 7th

School: Tappan Middle School

Town: Ann Arbor, MI



Explaining the Problem and Identifying a Solution (Identifying and Understanding)

1. What problem are you trying to solve? The more specific you are in describing the problem, the better your solution will be. How did you come up with the problem?

There is a mess of wires behind computers and consoles. When we remove one wire, we can accidentally remove another wire. It also looks like a big mess, takes up a lot of space and it is hard to distinguish between the wires. I asked other people what problems they had many of them said that they had a problem with wire messes so in that way I came up with this problem.

2. What is the result you are trying to achieve? The more specific you are in describing the result you want, the better your solution will be.

The result I am searching for is organizing the space that the wires are taking up. I have a solution that can achieve wire organization and distinction. The features that my solution will have is color coding, wire separation and wire storage so with all of those we can achieve the results we need.

3. What are some possible solutions? Which one did you choose to pursue? How did you decide which solution to try? The more specific you are in describing the solution you will create, the better your invention will be. How did you come up with the solution?

Here are some solutions from the internet with their disadvantages

A)	Vivo 60-inch cable management.	Disadvantage: does not have wire separators and no wire distinction
B)	Under desk metal tray.	Disadvantage: Hard installation and can't hold many wires
C)	Plastic wires that wrap around cables.	Disadvantage: doesn't save much space

(My solution will be same as solution A, but it will have wire distinction and wire separators. My solutions will fix the weaknesses and make the product better)



4. Has this solution been done before? If it exists, how is your approach different and better? What research did you do to see if this invention had been done before? Who did you talk to? Where did you look? What website did you search? You should show 4 pieces of evidence of different types of research – talking with experts, searching the internet, interviewing friends and family as to how useful this would be, etc.

Where I looked to see if my idea is new:

A. Amazon

B. Best buy

C. eBay

D. google (searched for images for ideas that are as same as mine)

Document any similar inventions you found, describing how yours will be different:

There is an invention called vivo 60 inch under desk cable management it has no wire separation or distinction, but it saved space and it was large. My Invention will be a little smaller, but it can save space, distinguish wires and it also has wire separators and in that way my invention will be different form the vivo 60-inch cable management.

Teacher Signature - REQUIRED FOR ALL PARTICIPANTS

I approve of the solution/invention my student has chosen to pursue and agree that it not only meets the guidelines shown on the Restrictions and Requirements page, but that it is also safe.

Teacher's Name (Printed)

Teacher's Signature _____ Date

I approve of the solution/invention my student has chosen to pursue and agree that it not only meets the guidelines shown on the Restrictions and Requirements page, but that it is also safe.



Creating and Improving the Design (Ideating and Designing)

5. Draw a model (a sketch or drawing) of the invention you are thinking about building. Label all the important parts and features. Explain how the invention will work. If you need more space, use another blank page.

ITERATION 2



6. What problems or issues might you encounter with this design? Is this design compatible with the principle of sustainability? Who did you talk to about this design (another student, parent, teacher, etc.)? What were their comments about your design?

There are not any issues with this design. Yes, it is compatible with the principle of sustainability. I talked to my mentors about this and they said that the design was useful and may need a few adjustments.

7. How can you fix those problems or address those issues?

There are no issues

8. Repeat steps 5 to 7 until you have a design that you think will work. You may have to make multiple copies of a blank page until you have a good design.

I have a good design.



Building the Invention or Prototype (Designing, Building, Testing)

9. What parts, materials, and tools will you need to make the invention and how much will they cost?

I will need 2 mini marker boards and markers, 20 wire separators and a hot glue gun and scissors
They will cost about 35\$ together

10. Where will you get those parts and materials?
Amazon, best buy and other online retailers

11. What additional skills or abilities will you need to make the invention?

I would need to learn how to use a hot glue gun.

12. Who can help you build the invention?

The mentor, friends or parents



13. Get the parts and materials and build the invention (with help).

I finished doing that.

14. Test and evaluate the invention. What did you do to test the invention?

I tried putting wires in it and check if it can hang of the table. It had no issues

15. Identify any problems with the invention. What will you change to make it better?

It had no problems

16. Repeat steps 5 to 15 until the invention works as planned. You may have to copy and make multiple copies of this blank page until you have an invention that works the way you want.

The invention works as planned.



Naming the Invention (Communicating)

17. Naming your invention is important.

- What words describe your invention?

Wire organizer, wire separator

- Think in terms of words that will help you name your invention.

Wires, Zen, Clean, organized

- What is the function of your invention?

It holds wires and saves space

- Think in terms of marketing it. How will it solve the problem? How will it help others?

It cleans up wire messes and separates each wire, so you know which wire is which. Helps others by cleaning wire messes



- How is your invention different from others that may already be on the market? If it is similar, what did you do to make it better? How is it different?

My invention is similar to many products, but I made it a little more compact and added wire separators and a color coding system and made it look more eye appealing.

- Who is your target audience? Who would use your invention?

The adults and businesses are my target audience. The adults and businesses will use my invention

Some creative attention-getting techniques you can use are:

- Alliteration (using the same first letters or sounds): "Kit Kat"
- Rhyming: "Light Bright"
- Alternative spelling: "Sno Bal"
- Using numbers in the name: "Super Clean 3000"
- Describing the function of the invention: "Hydro-Blast"

- Based on this analysis, what are some good names for your invention?

WIZEN, wire hider 1.0, Wireminator

- Which name do you like best and why?

WIZEN because WI stands for wires a Zen stands for Peace or calmness and it sounds cool

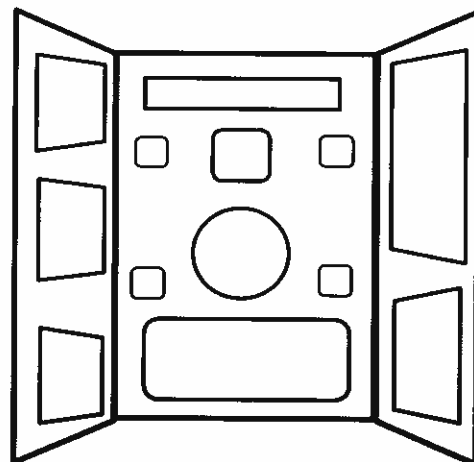
Planning and Creating the Invention Display Board (Communicating)

18. Create your display board. This is an example of what a Display Board might look like, but you can make it look however you want. This is your invention and your display, so use your creativity to tell the story of your invention the way you want.

Be sure you use:

- Fonts that are readable (style, size, color)
- Colors that look good together
- Shapes that are the right size
- Correct grammar and spelling
- Proper punctuation

Maximum size: With the wings folded in, the Display Board can only take 24" of table space. However, you are allowed to open up the wings during your Judging Circle presentation.



Your Display Board **MUST** contain the following information in one consolidated place on the poster:

- Student(s) Name(s)
- Project Name
- Student(s) Grade(s)
- Student(s) School
- School City, State
- Preferred Industry-Focused Award Category (e.g. Telecommunications)
- Patent Status (three options: None, Under Counsel, or Patent Pending)

Students should note "Patent Pending" on their posters for Patent Status **only** if a provisional or non-provisional patent application has been officially filed with the USPTO. If you are currently represented by an attorney or patent agent (pro bono or otherwise), then mark "Under Counsel." It is possible to be both "Under Counsel" and "Patent Pending", or just "Under Counsel", or just "Patent Pending" (if you did the filing yourself).

You might also want to add this information:

- Images showing you building or testing
- How the invention was made
- How the invention is used
- The biography of the inventor
- Text which supports and explains any pictures, drawings, charts, etc.
- What scientific principles were used in your invention? (e.g. buoyancy, heat transfer)
- What engineering disciplines were used in your invention? (e.g. electronics, optics)
- Testimonials from users, research results
- Any other information about the invention that will help explain it, what it does, or why it is good



Practicing What You Will Say About Your Invention (Communicating)

19. Be prepared to answer questions. Here are some questions that you might be asked in the Judging Circle by the judges or fellow students. To help you prepare, you might want to write down some of the important parts of your answers so that you have them when you practice giving your presentation.

- How did you come up with the idea for this invention?

I had a wire mess behind my computer I wanted to clean it and came up with this idea.

- What people, situations, or conditions does this problem affect?

It affects many people (Mainly teens to adults) or businesses.

- How did you think up your solution to the problem?

I searched for inventions that are close to mine and came up with a solution by mixing a few ideas.



- Where did you get the materials for the invention?

Amazon.com

- Who helped you build the invention and what did they help you do?

Parents showed me how to use a hot glue gun.

- Are there other, better materials you could have used that would improve the invention?

No there were no other better materials.

- Who has used your invention and what did they think about it?

My Dad used it and said it was a good invention.



- What changes might you want to make to your invention?

No changes needed.

20. Be proud of what you have done. You will use the problem-solving and communication skills you have gained here throughout your life and career. Congratulations on what you've done!

Blank Page(s)

These blank pages are available for you to add anything to your Invention Log that will help explain what you did, how you did it, and what the results were. This could include drawings, calculations, descriptions, test results, etc. Multiple copies of this page can be inserted anywhere you want in the Invention Log.

