OHANDA
Developing an Open Hardware Standard

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http://ohanda.org
OHANDA (Open Hardware and Design Alliance) is an initiative to foster sustainable sharing of open hardware and design. It was started at the GOSH!-Grounding Open Source Hardware summit at the Banff Centre in July 2009 and one of the first goals of the project is to build a service for open hardware design which includes a certification model and a registration. Ohanda is process, the process is open.
Adaptation of freedoms from Free Software Definitions:

Freedom 0.
**The freedom to use the device for any purpose**
(The freedom to run the program for any purpose)

Freedom 1.
**The freedom to study how the device works and change it to make it to do what you wish. Access to the complete design is precondition to this.**
(The freedom to study how the program works, and change it to make it to do what you wish. Access to the source code is precondition to this)

Freedom 2.
**Redistribute the device and/or design (remanufacture)**
(The freedom to redistribute copies to help your neighbours)

Freedom 3.
**The freedom to improve the device and/or design, and release your improvements (and modified versions in general) to the public, so that the whole community benefits. Access to the complete design is precondition to this.**
(The freedom to improve the program and, and release your improvements (and modified versions in general) to the public, so that the whole community benefits. Access to the source code is a precondition to this.)
4x Freedoms = Unlimited & Unconditional

Use, Make, Learn, Sell, Change, Copy, Manufacture, Mass-Produce, Improve, Downgrade, Upgrade, Redistribute, do absolutely whatever you want.
1. The designer applies the copyleft license to the product designs and documentation or leaves it as public domain.
2. The designer registers in (as a person or as an organisation) and gets an unique producer ID. By registering at Ohanda, the designer accepts the terms and conditions to use the trademark by granting the 4 freedoms to the user and publishing the work under a copyleft license.
3. The designer will then register the product and receive a unique product ID. After doing so, the designer may apply the trademark to the product.
4. With the unique Ohanda key on the product the user will be linked back to the designer, the product description, design artifacts and the copyleft license through the web based service offered by Ohanda.
5. Empowered by the freedoms, user may develop the product further, register in as producer, share his/her design artifacts applied with copyleft license and be connected to the derivatives of the product.
The service could be based on existing webservices like DNS in order to keep the system light and distributed.
REGISTERED PRODUCTS
Product ID

OHANDA list of registered products (This is still work in progress! It is 4 digits of producer and then 4 digits of product.)

1. OKEY: 0003-0001 - solenoid shield
2. OKEY: 0004-0001 - Magh 3G Good Stove
3. OKEY: 0004-0002 - MAGH-1 WOODGAS STOVE
4. OKEY: 0004-0003 - TWISTER T-LUD MAGH STOVE
5. OKEY: 0004-0004 - AVAN STOVE
6. OKEY: 0004-0005 - SMOKE BURNER STOVE MAGH-II
7. OKEY: 0004-0006 - MAGH OPEN STOVE
8. OKEY: 0004-0007 - MAGH CM LAXMI
9. OKEY: 0004-0008 - MAGH CM
10. OKEY: 0004-0009 - MAGH CM-II NATURAL DRAFT T-LUD WOODGAS STOVE
11. OKEY: 0004-0010 - MAGH-S GOOD STOVE
12. OKEY: 0004-0011 - MY HOME GOOD STOVE
13. OKEY: 0004-0012 - GOOD STOVE (PORTABLE)
14. OKEY: 0004-0013 - MAGH CM-1 WOODGAS T-LUD STOVE
15. OKEY: 0004-0014 - MAGH UTHAM WOODGAS BURNER
16. OKEY: 0004-0015 - MINI BIOGAS PLANT - SRUSHTI
17. OKEY: 0004-0016 - MAGH BIOCHAR RETORT-1
18. OKEY: 0005-0001 - Moonrover "o-rover"
19. OKEY: 0006-0001 - One-Bit Groove Box
20. OKEY: 0007-0001 - MiniSix Microcontroller
21. OKEY: 0008-0001 - Crypto Stick
OPEN HARDWARE COMMUNITIES
TOWARDS A STANDARD?
Make public sufficient information to test/reproduce

Collect information on new innovations

Ensure openness

Make the description/documentation publicly accessible

Protect common knowledge

Make standard generic, universal, simple

Create a venue for time-stamping, quality control & trust
A process:

- as simple and cheap as a license
- as sustainable as copyleft (same license for next iteration)
- as visible as a trademark (on the product/device)

AND

- as useful as patents (especially in terms of documentation / how-to)
QUESTIONS
Which communities will this serve?
Do we need a trademark or a standard to go with the licenses and definition?
How can this fit with different goals and unify the entire Open Hardware community?
Let's Have Lunch.

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