

**TYPE OF
INDICATORS
NEEDED**

PERISHABLES/FOODS

**Supermarkets and consumers
generally want to know the food is:**

- Safe to eat or not
- Fresh or not fresh
- Usable or not usable
- **Not thermally abused**

PERISHABLES/PHARAMACEUTICALS

Consumers, doctors and pharmacists generally want to know the pharmaceutical is:

- Potent or not potent
- Effective or not effective
- Usable or not usable
- **Not thermally abused**

VISTORS AND ID BADGES

Security personnel generally want to know whether the visitor/employee is:

- Valid or not valid
- Allowed or not allowed
- Badge is valid or not

MEDICAL SUPPLIES

Hospital personnel generally want to know whether the medical supply is:

- Sterilized or not sterilized
- Safe to use or not

CONSUMERS NEEDS

- Most of the time, consumers want to know: whether a product is good or bad, acceptable or not acceptable, valid or not valid..etc
- It is good to know how good the product is. However, as far as consumer acceptability is concern, the consumer wants to know the product is acceptable or not acceptable. Essentially there is little in-between.

**WHAT TYPE
OF INDICATOR
WOULD YOU
PREFER?**

CHANGING COLOR GRADUALLY LIKE THIS?



OR

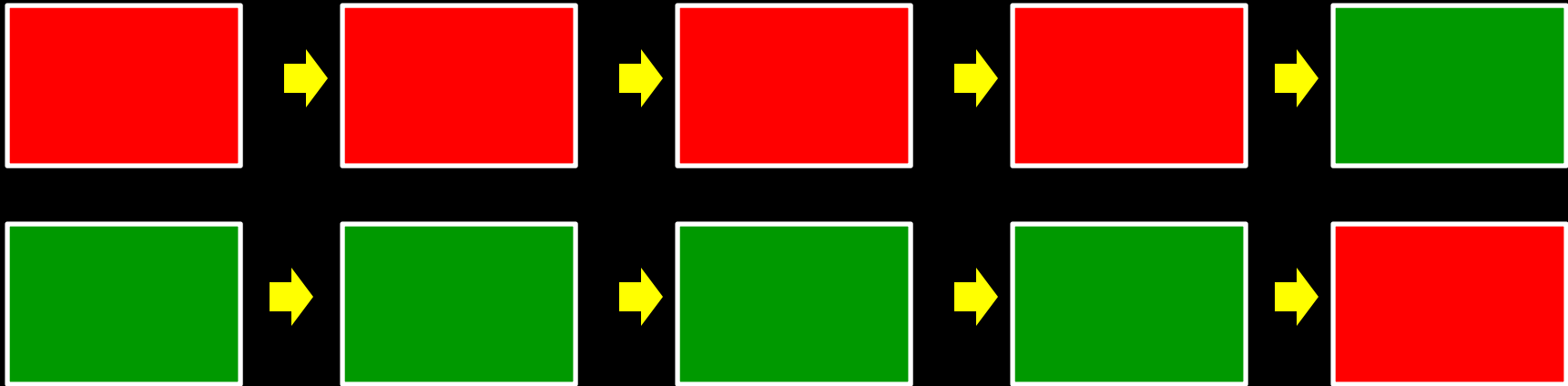
CHANGING ABRUPTLY LIKE THIS WHEN DONE?



Treatment time

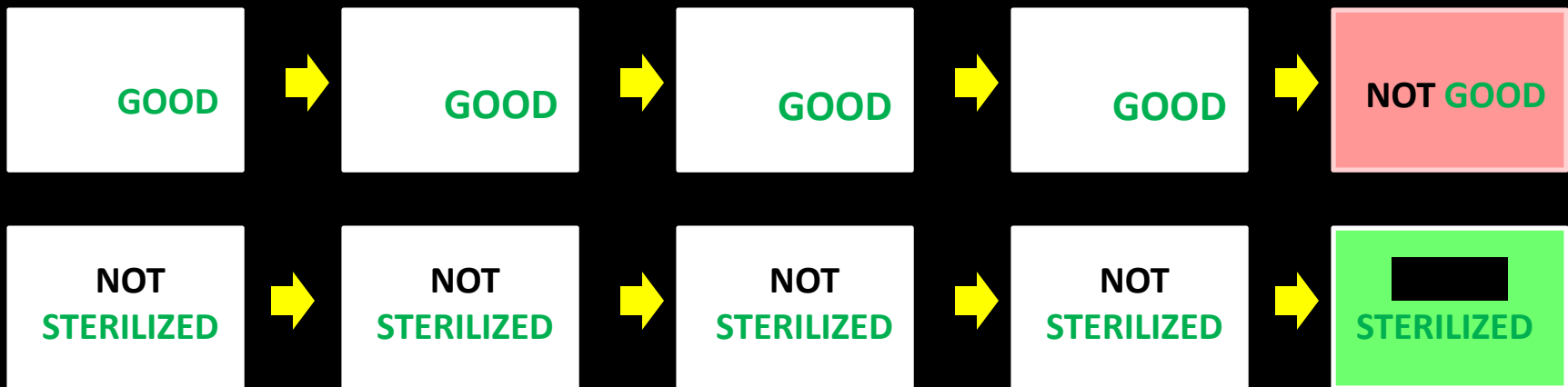


NON-NANO: A GRADUAL COLOR CHANGING?



OR

NANO INDIs: ABRUPTLY CHANGING-&-SELF READING?

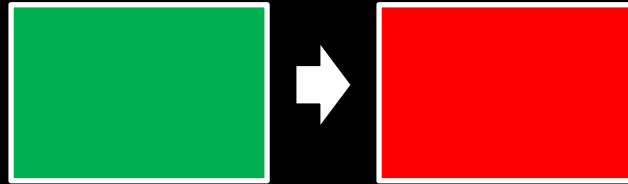


Treatment time



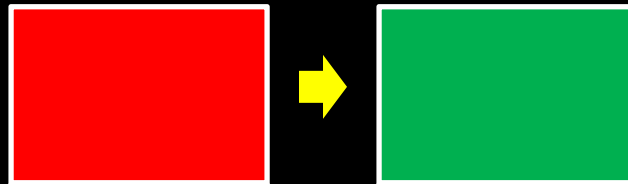
NON-NANO: COLOR CHANGING WITH EXPLANATION?

WARNING TYPE
(Perishables/visitors)



If the square is green
the product is good.
If it is red, do not use

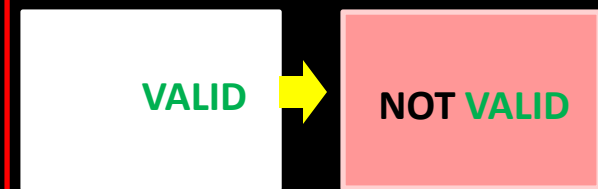
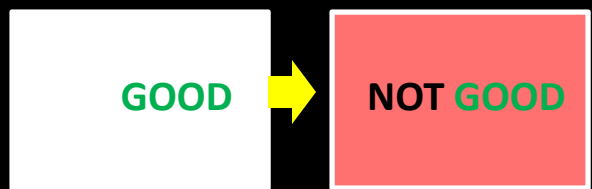
ASSURANCE TYPE
(Sterilization)



If the square is red the
product is not sterilized. If
it is green, it is sterilized

OR

NANO INDIs: ABRUPTLY CHANGING-&-SELF READING?



Essentially idiot proof: Self-reading in any language with
any background color and with no need for explanation

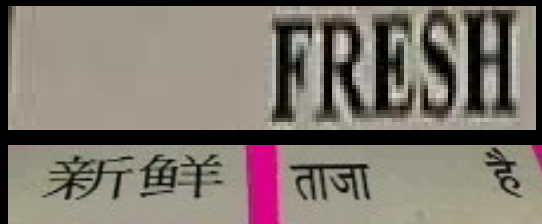
NANO-INDICATOR TECHNOLOGY

JP LABORATORIES, INC
has developed

- 1) SEVERAL CLASSES OF NOVEL, SELF READING, IDIOT PROOF AND ACCURATE INDICATORS BASED ON THE DESTRUCTION OF A METALIZED PLASTIC FILM COMPRISED OF A ~10 nm ALUMINUM LAYER AND A ~2 nm NATURALLY FORMED OXIDE LAYER
- 2) INDICATORS WITH A RARE COMBINATION OF UNIQUE & MOST DESIRED PROPERTIES
 - LONG INDUCTION PERIOD (GO/NO-GO TYPE)
 - ANY MESSAGE/SYMBOL IN ANY LANGUAGE/COLOR

EXAMPLES OF NANO-INDIS™ - THE FUTURE

(Simple, self reading and idiot proof)



TTI

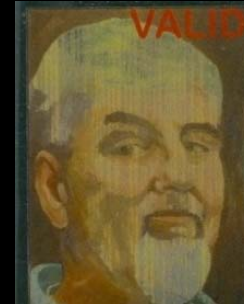


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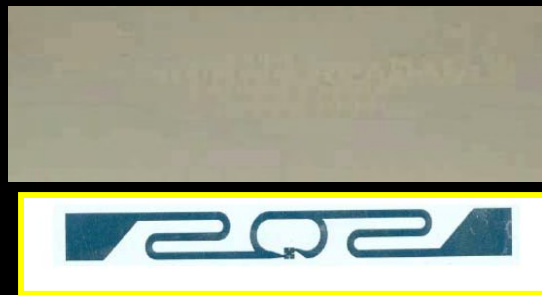
EXPOSED TO CHLORINE



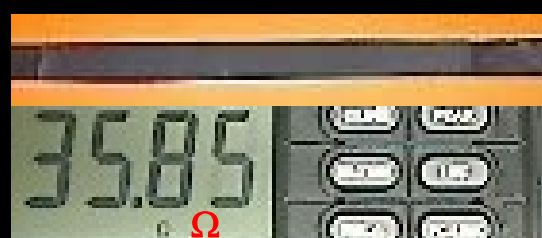
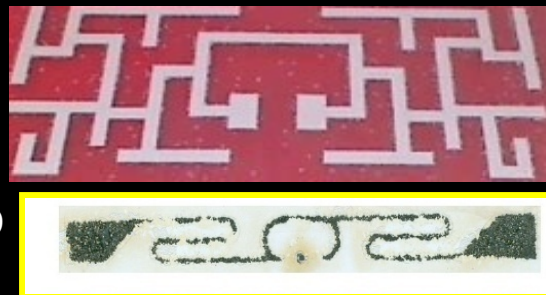
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TI



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R



Continuous monitor

1 2 3 4 5 6
1 2 3 4 5 6 7 8 9 10
1 2 3 4 5 6 7 8 9 10 11 12
1 2 3 4 5 6 7 8 9 10 11 12

NANO-INDIS™

**A REVOLUTION IN
INDICATOR TECHNOLOGY**

**UNIVERSALIZING THE
INDICATOR TECHNOLOGY**

NANO-CONVERSION TECHNOLOGY

AN IGNORED BUT NOVEL AND
UNIQUE FIELD OF NANOSCIENCE

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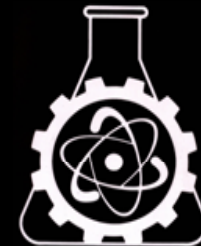
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Nano-Conversion
Technology