



Spot the Invention: In the Living Room



In the pictures below, circle the inventions that you see. After you are done, check to see if you found the patented objects listed on the next page.



IP All Around Us: At Home- Patent Key

Here are a few U.S. Utility Patents(#), Design Patents (D) and Plant Patents (PP), listed by patent number, that coordinate with the highlighted items on the display poster. Since most inventions go through much iteration, there are usually many patents associated with the item, so this list is far from exhaustive. See if you can find more related patents using the patent search engine on the USPTO website.

1. Floor Fan

#2,000,386 - Electric Fan
#5,411,373 - Convertible Floor Fan

2. Stuffed Teddy Bear

#4,170,086 - Stuffed Toy Animal
D483,817 - Teddy Bear

3. Sofa

#3,740,774 - Sofa Bed
#3,988,034 - Chair and Sofa Construction

4. Laptop

#4,839,837 - Three layered laptop computer
D504,129 - Laptop computer

5. Cell Phone

D419,155 - Cellular telephone housing
D642,563 - Electronic device
D654,896 - Mobile Phone

6. Remote Control

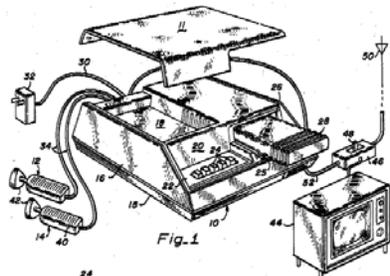
#1,154,628 - Wireless Selective System
#6,437,836 - Extended Functionally Remote Control System and Method Thereof

7. Digital Camera

#3,719,922- Digital Camera
D652,067- Digital Camera

8. Digital Tablet

#4,790,028 - Method and Apparatus for Generating Variably Scaled Displays
D490,420 - Tablet Personal Computer



9. Crayons

#1,414,570 - Crayon
#3,491,043 - Crayon Wax Composition

10. Red Poinsettia

PP 3394- Poinsettia Plant
PP 4594- Poinsettia

11. Pillow

#3,660,222 - Filling materials of polyester fibers
#3,109,182 - Pillow

12. Rug

#7,356,453,- Computerized Pattern Texturing
D7,112 - Carpet Pattern

13. Stereo Receiver

#3,526,720 - Stereo Attachment for Standard Frequency Modulation Receiver
#7,406,302 - Digital FM stereo receiver architecture

14. Cable Box

#4,748,501 - Cable Converter for Television Signals with Stereo Audio Signals
#7,836,481 - Set-Top Terminal for Generating Interactive Program Guide for Use with Television

15. Game System

#4,095,791 - Cartridge Programmable Video Game System
#8,019,121 - System for Processing Intensity Input Device for Interfacing with Computer Program

16. Speakers

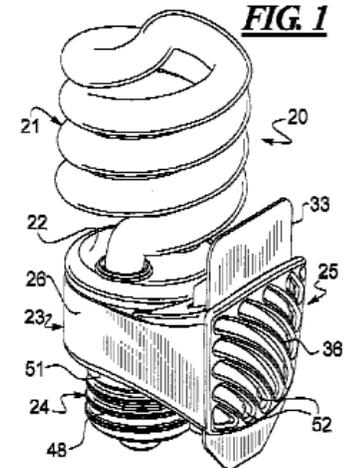
4,131,179 - High Fidelity Speaker System
D546,815- Audio Speakers

17. Ceiling Fan

#1,409,090 - Ceiling Fan
#4,073,598- Ceiling Fan

18. Digital Photo frame

#6,266,069 - Picture Frame with Electronic and Digital Images
#8,094,132- Image Display with Touch



19. Energy Efficient Light Bulb

#2,259,040 - Electric Discharge Lamp
#7,618,151 - Combination Compact Fluorescent Light with Active Emission

20. Thermostat

#4,079,366 - Electronic Timer and Thermostat switch Device
#6,315,221 - Hardwired Digital Thermostat

21. Sprinkler

#5,584,344 - Extended coverage ceiling sprinklers and systems
#8,122,969 - Residential dry sprinkler design method and system

22. Smoke Detector/Fire Alarm

#1,367,899 - Automatic Fire Alarm
#6,479,833 - Fire Alarm Box with Direct and Scattered Light Detection

23. Plasma Television

#3,748,378 - Flat Panel Video Display Device
#7,423,864 - Plasma Display Device

24. Brick Wall

#3,248,834 - Simulated Brick Interior Siding
#3,740,991 - Brick Veneer Wall Construction



Spot the Invention: In the Classroom

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1. Smart Board

D635,189 - Interactive display
 #8,115,753 - Touch screen system with hover and click input methods

2. 50" Digital LED Television

#4,204,222 - High output LED matrix color TV screen with vertical triad and tricolor faceplate
 D643,389 - LED television receiver

3. Bunsen Burner

#1,723,002 – Bunsen burner
 #4,229,160 - Bunsen burner guard

4. Microscope

#2,635,504 – Microscope
 #6,741,391 - Three-dimensional object observing microscope

5. Stool

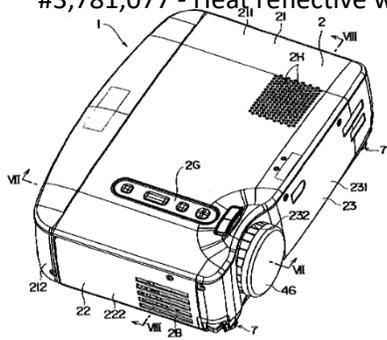
#1,399,465 – Stool
 #4,429,918 - Operatory Stool

6. Mortar and Pestal

#278,575 - Pestal handle
 #507,410 - Druggist's and Chemist's Mortar

7. Reflective Window Glass

#2,162,598 - Composite shatterproof window glass
 #3,781,077 - Heat reflective window pane



8. Lab Station Countertop

#6,113,199 - Laboratory countertop
 #3,151,010 - Method of preparing a solid composite propellant

9. Building Fire Alarm System

#2,673,975 - Fire alarm system
 #6,960,987- Fire alarm system, fire sensor, fire receiver, and repeater

10. Public Address (PA) System

#5,034,997 - Communication system for data transmission
 #6,738,456 - School observation and supervisory system

11. Digital Tablet

#5764797- Method and System for Modeling Handwriting
 D490420- Tablet Personal Computer

12. Fire Extinguisher

#2,238,693 - Fire extinguisher
 #7,188,679 - Remote fire extinguisher station inspection

13. Projector

#2,016,188 – Projector
 #6,976,760 - Projector having a cooling passage that cools the light source and outer case

14. Computer Speaker

#5,291,559 – Computer Speaker
 D450,050 - Flat panel multimedia computer speaker

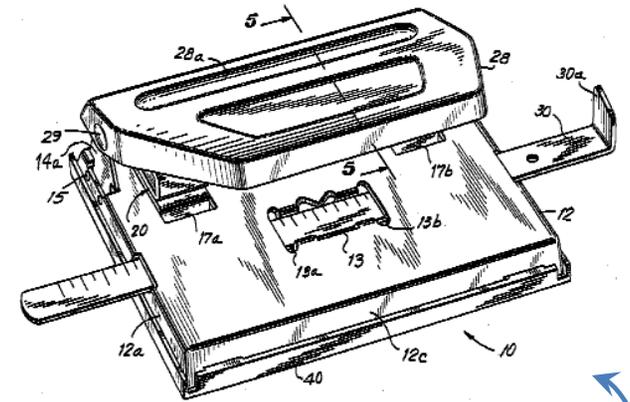
15. Thermostat

#4,799,176- Electronic Digital Thermostat
 #6,315,221- Hardwired Digital Thermostat

16. Tape Dispenser

#1,774,042 - Gummed-tape dispenser
 D248.561 – Tape Dispenser

FIG. 1



17. Liquid Paper (white out)

#3,997,498 - Non-smudge correction fluid
 D388,119 - Pen for correction liquid or regular ink

18. Hole punch

#1,758,846 - Hole-opening punch
 #4,713,995 - Hole punch assembly

19. Wall Clock

#1,773,152 - Secondary wall clock
 D359,914 - Round wall clock

20. Dry Erase Board

#7,713,375 - Dry erase writing board
 D635,336 - Hat with dry erase surface

21. Vinyl Tiles???

#3,748,378 - Flat Panel Video Display Device
 #7,423,864 - Plasma Display Device

22. Motion Activated Light Switch

#5,661,370 - Multi-positionable motion activated light switch
 D588,035 – Vacancy Sensor



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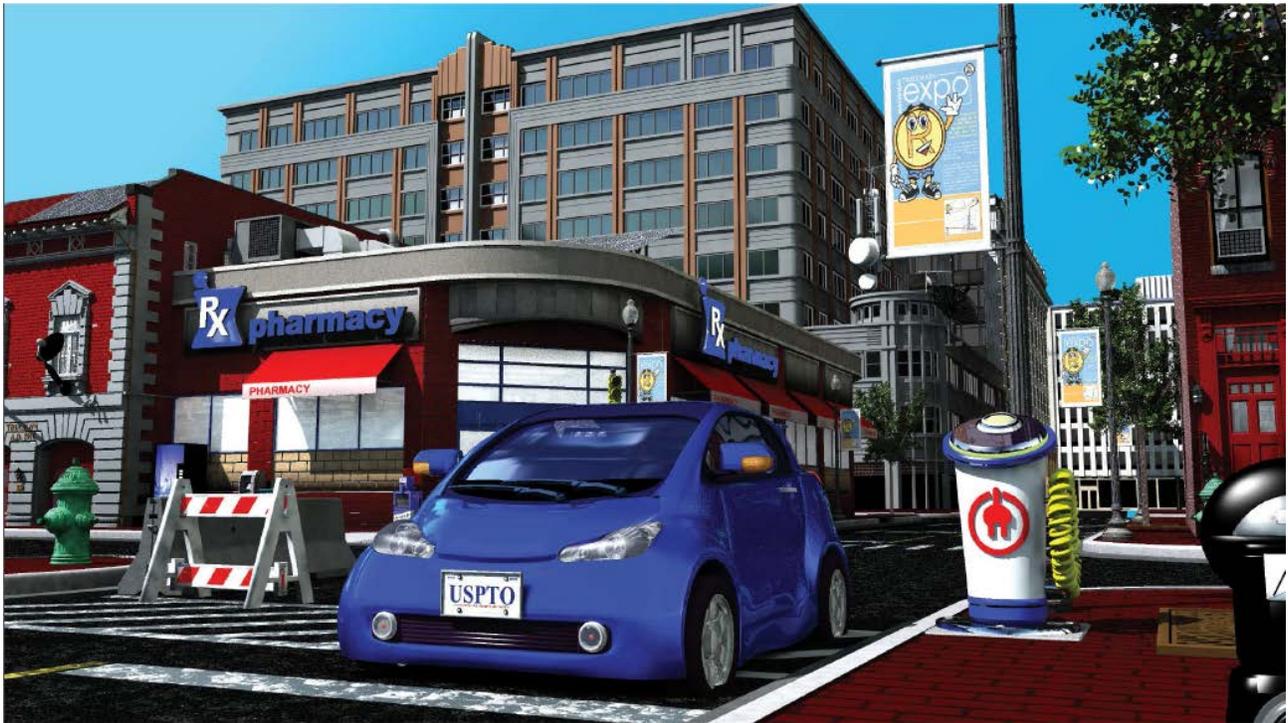
Envision, Believe, Succeed

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Spot the Invention: In the City



In the pictures below, circle the inventions that you see. After you are done, check to see if you found the patented objects listed on the next page.



Intellectual Property In-Between Answer Key

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1. Heat Pump – Heating & AC Systems

- 4,291,833: Heating system with focused solar panels and heat pump assist
- 6,041,613: Energy-conserving pump system
- 6,519,966: Air conditioning/heat pump systems

2. Reflective Window Glass

- 4,251,572: Method of restoring ore repairing reflective glass
- 8,199,406: Optical element and method for manufacturing

3. Microwave Tower

- 3,440,659: Tower supported microwave reflector with adjustable mount
- 4,334,775: Method for dynamically determining the motion of a tower

4. Electric Car

- 4,351,405: Hybrid car with electric and heat engine
- 6,260,644: Motor controlling apparatus for a hybrid car

5. Pharmacy

- 2,912,309: Glucose detector
- 2,412,535: Antiperspirant preparation

6. LED Car Headlights

- 7,441,928: Lighting Device
- 7,534,020: LED Headlight for a vehicle

7. Construction Sawhorse

- 4,674,432: Traffic barricade
- 6,116,811: Warning barricade apparatus

8. Reflective Road Markers

- 5,516,277: Spherodized fluorescent beads for improved roadway pavement

9. Electric Car Charging Station

- 3,529,229: Electric Car Battery Recharger
- 6,741,391: Three-dimensional object observing microscope

10. Parking Meter

- 1,973,275: Automatic parking meter
- D450,253/2,115,024: Parking Meter

11. Paving Bricks

- 5,201,843: Interlocking paving stone for open drainage ground cover pattern
- 5,281,047: Masonry landscaping module and methods of landscaping

12. Windshield

- 788,188: Movable front for automobiles
- 6,919,536: Vehicle window with ice removal unit

13. ATM

- 7,284,692: ATM with RFID card, note, and check reading capabilities
- 8,186,578: ATM transaction authorization based on user location verification

14. Newspaper Dispenser

- 3,708,087: Newspaper dispenser
- 5,845,577: Newspaper stand with printer for printing undated news

15. Automatic Door Sensor

- 4,565,029: Traffic responsive control system for automatic swinging door
- 6,782,660: Automatic door sensor

16. Stop Signal

- 1,335,240: Traffic signal
- 7,466,227: Location based vehicle traffic signal alert system

17. Square Garden

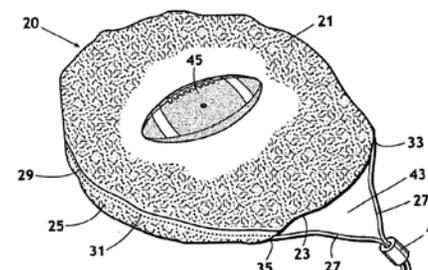
- 2,618,500: Garden implement
- 4,251,572: Square cut turf plugging tool with adjustable cut depth

18. Materials used to make furniture from recycled goods

- 5,746,958: Method of producing a wood-thermoplastic composite material

19. Satellite TV Dish

- 6,714,167: Satellite dish cover



20. Solar Panels

- 4,003,363: Solar panel construction
- 6,268,559: Photovoltaic generation system

21. Construction Barrel

- 4,083,033/4,674,431: Traffic control element

22. Concrete Barrier

- 3,678,815: Concrete structural member
- 5,685,665: Roadway barrier

23. Fire Hydrant

- 1,360,340/3,939,861: Fire hydrant

24. Vending Machine

- 7,837,058: Product transport for a vending machine
- D606,118: Vending machine



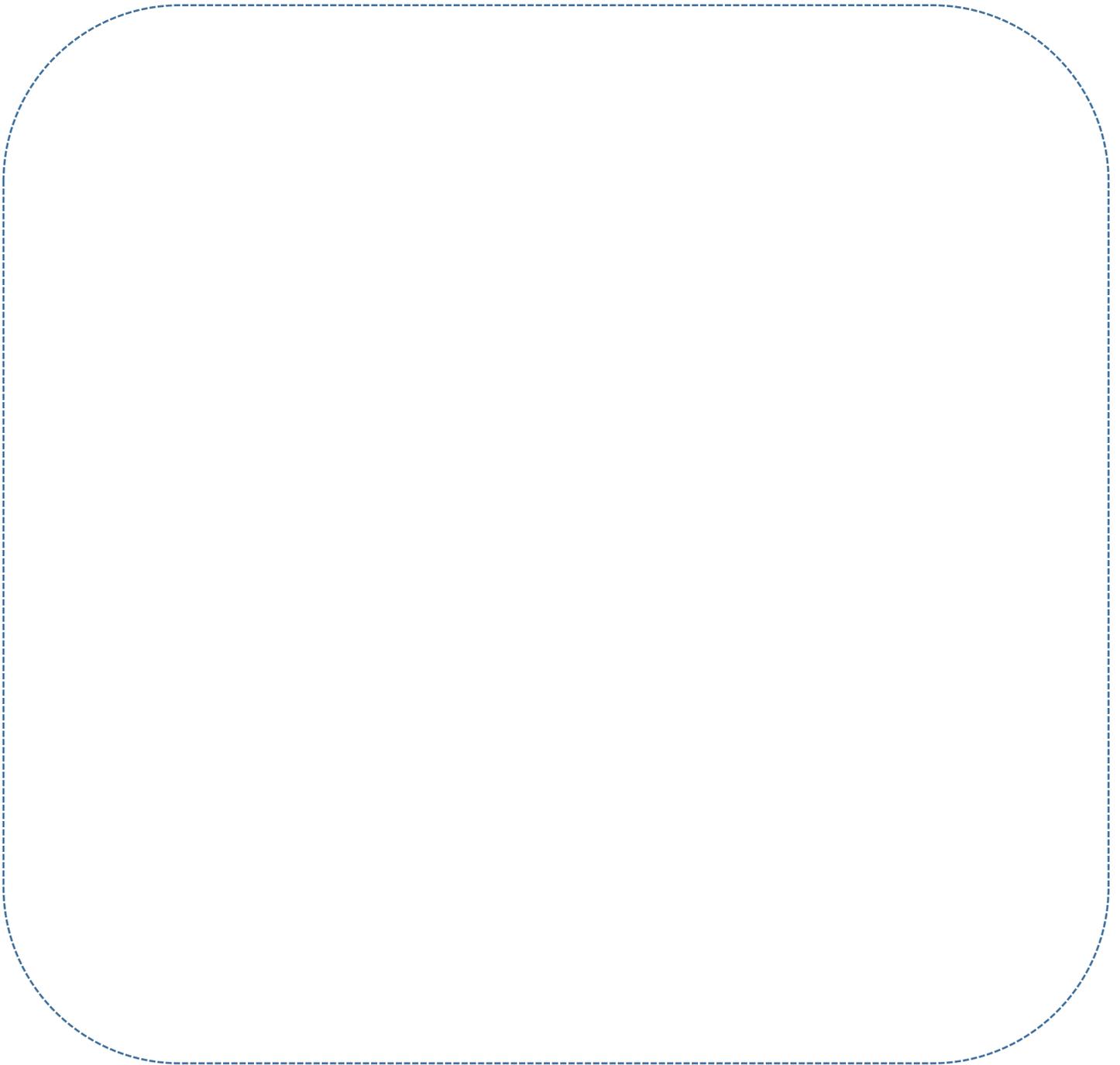
Spot the Invention



You found just a few examples of how intellectual property improves our daily lives. Some of the inventions in these images are, or once were, protected by patents. After finding the inventions in the pictures and looking at the listed patents, answer these questions:

1. All inventions start with an idea. What ideas do you think sparked the inventions in these images? Do you think the inventors were trying to solve a problem or make life easier or safer?
2. Ralph Waldo Emerson once said, "Invention breeds invention." Which inventions in these images were derived or inspired by earlier inventions?
3. Pick an invention and use it as your inspiration to come up with a new, useful, and completely different way to get the same or better results. What will you invent?

4) Find a similar item in your house or neighborhood to one of the inventions you found in the pictures. Draw a picture, or write a description on how it is similar or different to the item in the picture.



Intellectual Property is everywhere.

Challenge yourself to take notice of it in your own world.

Be Inspired!

For more information on invention, innovation, and IP visit: www.uspto.gov/kids