

**UNITED STATES
PATENT AND TRADEMARK OFFICE**



Intellectual Property 101

Julie Brockett & David Duffy,
Quality Assurance Specialists, Technology Center 3700
Puzzle and Board Game Conference
May 13, 2022

UNITED STATES
PATENT AND TRADEMARK OFFICE



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Discussion Topics

- What is intellectual property (IP)?
 - Trade secrets, copyrights, trademarks, patents
- Searching Patents
- USPTO Resources

Overview of IP: types

- **Patents**
 - Protects inventions
 - Source: U.S. Const., Art. 1, Sec. 8
- **Trademarks**
 - Protects marks in commerce that indicate the source or origin of goods or services
 - Source: Federal, State, and Common Law
- **Copyrights**
 - Protects original (art) works fixed in a tangible medium
 - Source U.S. Const., Art. I, Sec. 8
- **Trade Secrets**
 - Protects commercially valuable information
 - Source: State and Common law

Types of intellectual property



Patent

New, inventive ideas



Trademark

Identifies the origin of goods or services



Copyright

Creative expression stored in a tangible form



Trade secret

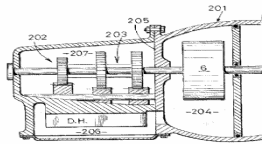
Any information that is valuable & kept confidential



Overview of intellectual property

	Utility/Plant Patent	Design Patent	Trade Secrets	Copyrights	Trademarks
What is protected	Inventions – process, machine, manufacture, or composition of matter	Ornamental design embodied in, or applied to, an article of manufacture	Commercially valuable information (e.g., formulas, techniques, processes)	Forms of creative expression, in an all-encompassing sense – original works fixed in a tangible medium	Marks in commerce that indicate the source or origin of goods or services
Protects Against...	Making, using, selling, offering for sale, and importing into the U.S.	Making, using, selling, offering for sale, and importing into the U.S.	Misappropriations	Copying, performing, displaying, and creating derivative works	Using a mark in a way that causes likelihood of confusion
Endures until...	Generally, from the patent grant date to 20 years from the earliest effective U.S. filing date	15 years from patent grant date for applications filed on or after May 13, 2015	Publicly disclosed	The life of the author +70 years for works created on or after 1/1/78	Abandoned or loss of distinctiveness or secondary meaning
Rights of Independent Third Party Creators	None	None	Full	Full	None

Examples

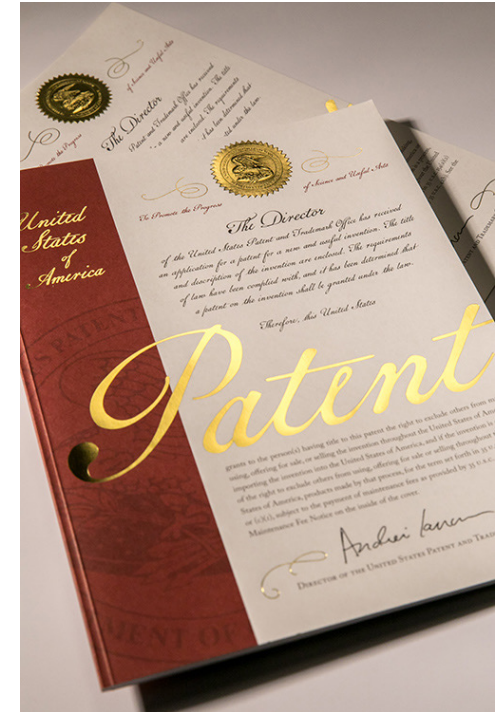


Patents

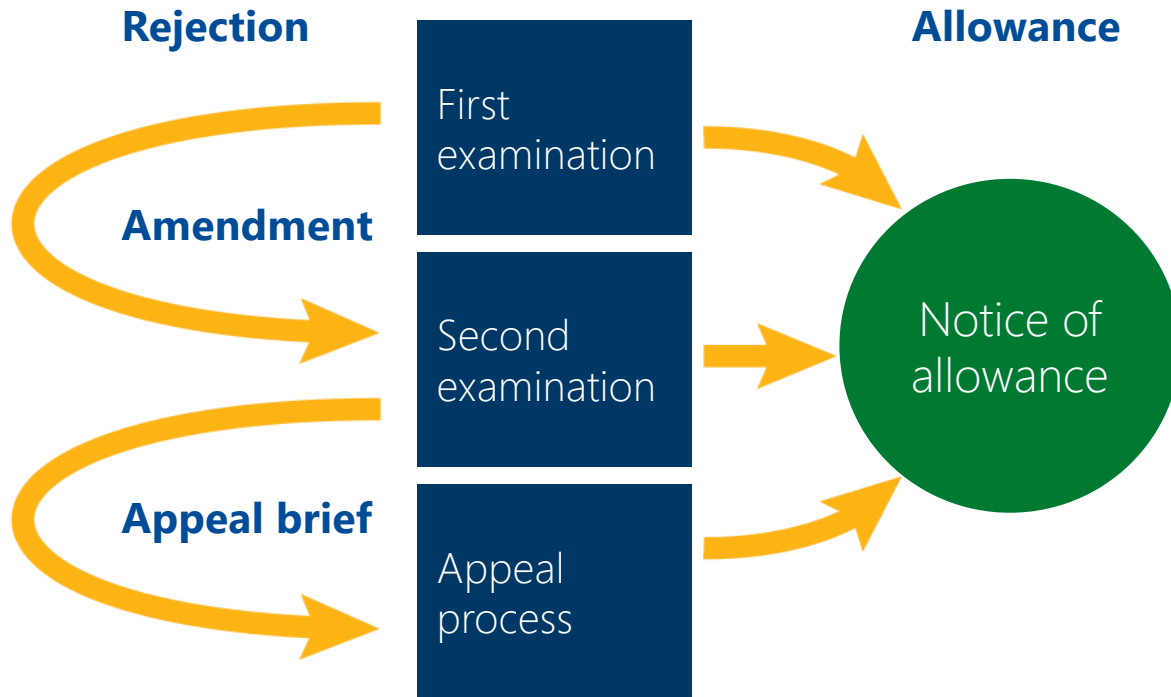
A U.S. patent is

- A property right granted by the United States government to an inventor
- To exclude others from making, using, offering for sale, or selling the invention throughout the United States or importing the invention into the United States
- For a limited time in exchange for public disclosure of the invention
- Patent term, generally
 - Plant or utility patent: 20 years from the date on which the application for the patent was filed in the United States
 - Design patent: 15 years from the date of patent grant

The U.S. patent system provides innovators with exclusive rights—for a limited period of time—to their inventions, which permits them to raise capital, build their businesses, and bring new, innovative products and services to the marketplace.



The examination process



Primary statutory requirements:

- **35 USC 101:** Is the invention based on eligible subject matter?
- **35 USC 102:** Is the invention truly novel?
- **35 USC 103:** Is the invention non-obvious?
- **35 USC 112:** Has the inventor fully disclosed the invention, and how to make it?

Searching Patents

Patent Example

United States Patent [19]

[11] 4,378,116

Rubik

[45] Mar. 29, 1983

[54] SPATIAL LOGICAL TOY

[75] Inventor: Ernő Rubik, Budapest, Hungary

[73] Assignee: Politoys Ipari Szövetkezet, Budapest, Hungary

[21] Appl. No.: 289,192

[22] Filed: Aug. 3, 1981

[30] Foreign Application Priority Data

Oct. 28, 1980 [HU] Hungary 2598/80

[51] Int. Cl.³ A63F 9/08

[52] U.S. Cl. 273/153 S

[58] Field of Search 273/153 S, 155

[56] References Cited

FOREIGN PATENT DOCUMENTS

170062 2/1978 Hungary 273/153 S

OTHER PUBLICATIONS

Scientific American, Mar. 1981, p. 39.

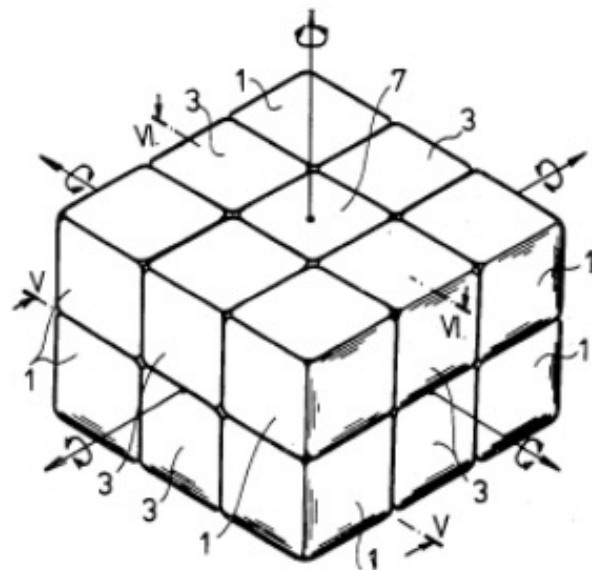
Primary Examiner—Anton O. Oechsle
Attorney, Agent, or Firm—Gabriel P. Katona

[57]

ABSTRACT

A spatial logical toy is formed from a total of eighteen toy elements, out of which two sets of eight identical toy elements two connecting elements are provided. The elements of the two sets have cam members with hollows with spherical convex or concave surfaces in-between. The elements are connected by the aid of the cams and the two remaining centrally positioned substantially identical connecting elements each having a T-shape cross-section and when assembled the toy is in the form of a regular or an irregular solid. Fixation is performed by one single screw passing through bores in the connecting elements. In such a manner the toy elements forming the lateral faces of the spatial logical toy can be rotated along the spatial axes and by yielding several variation possibilities the toy is well suitable for stimulating logical thinking activity.

7 Claims, 12 Drawing Figures



uspto

Patent Public Search Tool

- Convenient, robust full-text search of US patents and published patent applications
 - Free, cloud-based platform available to all users via the internet, with no account necessary
- Combines capabilities of legacy search tools and is based on the current search tools used by USPTO patent examiners
- <https://ppubs.uspto.gov/pubwebapp/>



Search Resources

- Other USPTO resources

- Public Search Facilities and Patent and Trademark Resource Centers (PTRCs)

<https://www.uspto.gov/learning-and-resources/support-centers/patent-and-trademark-resource-centers-ptrcs>

- Cooperative Patent Classification (CPC) Index:

<https://www.uspto.gov/web/patents/classification/cpc/html/cpc.html>

- United States Patent Classification (USPC) Index (G):

<https://www.uspto.gov/web/patents/classification/uspcindex/indexg.htm>



Search Resources (cont.)

- Examples of external resources:
 - Google Patents: <https://patents.google.com/advanced>
 - Espacenet: <https://worldwide.espacenet.com/>
 - Patentscope: <https://patentscope.wipo.int>
 - IPC Scheme (searchable): <https://ipcpub.wipo.int/>

IPC Scheme

-	A	HUMAN NECESSITIES <u>HEALTH; LIFE-SAVING; AMUSEMENT</u>
-	A63	SPORTS; GAMES; AMUSEMENTS
+	A63B	APPARATUS FOR PHYSICAL TRAINING, GYMNASTICS, SWIMMING, CLIMBING, OR FENCING; BALL GAMES; TRAINING EQUIPMENT (apparatus for passive exercising, massage A61H)
+	A63C	SKATES; SKIS; ROLLER SKATES; DESIGN OR LAYOUT OF COURTS, RINKS OR THE LIKE (water skis B63B 32/00, B63B 34/00) [5]
+	A63D	BOWLING GAMES, e.g. SKITTLES, BOCCE OR BOWLS; INSTALLATIONS THEREFOR; BAGATTELLE OR SIMILAR GAMES; BILLIARDS (balls A63B 37/00)
+	A63F	CARD, BOARD OR ROULETTE GAMES; INDOOR GAMES USING SMALL MOVING PLAYING BODIES; VIDEO GAMES; GAMES NOT OTHERWISE PROVIDED FOR [5]
+	A63G	MERRY-GO-ROUNDS; SWINGS; ROCKING-HORSES (swings or rocking horses as nursery furniture A47D 13/10); CHUTES; SWITCHBACKS; SIMILAR DEVICES FOR PUBLIC AMUSEMENT
+	A63H	TOYS, e.g. TOPS, DOLLS, HOOPS OR BUILDING BLOCKS
+	A63J	DEVICES FOR THEATRES, CIRCUSES, OR THE LIKE; CONJURING APPLIANCES OR THE LIKE
+	A63K	RACING; RIDING SPORTS; EQUIPMENT OR ACCESSORIES THEREFOR (stop watches G04F 7/06; timing G07C 1/22; indicating arrangements for variable information by selection or combination of individual elements G09F 9/00)

IPC Scheme

–	A63	SPORTS; GAMES; AMUSEMENTS
–	A63F	CARD, BOARD OR ROULETTE GAMES; INDOOR GAMES USING SMALL MOVING PLAYING BODIES; VIDEO GAMES; GAMES NOT OTHERWISE PROVIDED FOR [5]
–	A63F 1/00	Card games (aspects of games using an electronically generated display having two or more dimensions showing representations related to the game A63F 13/00) [2006.01]
	A63F 1/02	• Cards; Special shapes of cards (card-printing methods B41K, B41M) [2006.01]
	A63F 1/04	• Card games combined with other games [2006.01]
+	A63F 1/06	• Card game appurtenances [2006.01]
–	A63F 3/00	Board games; Raffle games (racing games, traffic games, or obstacle games characterised by figures moved by action of the players A63F 9/14; aspects of games using an electronically generated display having two or more dimensions showing representations related to the game A63F 13/00) [2006.01]
	A63F 3/02	• Chess; Similar board games [2006.01]
	A63F 3/04	• Geographical or like games [2006.01]
	A63F 3/06	• Lottos or bingo games; Systems, apparatus or devices for checking such games [2006.01]
	A63F 3/08	• Raffle games that can be played by a fairly large number of people [2006.01]
–	A63F 5/00	Roulette games (aspects of games using an electronically generated display having two or more dimensions showing representations related to the game A63F 13/00) [2006.01]
	A63F 5/02	• Roulette-like ball games [2006.01]
	A63F 5/04	• Disc roulettes; Dial roulettes; Teetotums; Dice-tops [2006.01]
+	A63F 7/00	Indoor games using small moving playing bodies, e.g. balls, discs or blocks (board games, raffle games A63F 3/00; roulette games A63F 5/00; aspects of games using an electronically generated display having two or more dimensions showing representations related to the game A63F 13/00; miniature bowling games A63D 3/00; bagatelle or similar games A63D 13/00; billiards, pocket billiards A63D 15/00) [2006.01]
+	A63F 9/00	Games not otherwise provided for (aspects of games using an electronically generated display having two or more dimensions showing representations related to the game A63F 13/00) [2006.01]
+	A63F 11/00	Game accessories of general use [2006.01]
+	A63F 13/00	Video games, i.e. games using an electronically generated display having two or more dimensions [2014.01]

USPC Scheme

Game	
Amusement railways	104 / 53+
Annunciator systems	340 / 323 R
Board games	273 / 236+
Board or surface	D21 / 334+
Checkerboard	D21 / 348+
Cribbage	D21 / 343
Dart	D21 / 387
Domino	D21 / 391
Horseshoe	D21 / 387
Tic-tac-toe	D21 / 344
Carrier	224 / 103
Other than stringer	224 / 921*
Check or coin control	194
Computer	463 / 1+
Computer analysis, management, or	700 / 91+
Monitoring	700 / 91+
Computer scoring	700 / 92
Design	D21 / 300+
Electronic type	D21 / 324+
Fluid filled	D21 / 311
Game apparatus	273
Projectile	473
Handicapping, computer	700 / 93
Peg tally board	235 / 90
Pieces	273 / 288+
Design, misc	D21 / 386+
Score boards	116 / 222+
Spinners & indicators for	D21 / 374+
Tables	D21 / 397
Tally sheet	283 / 49+
Target	D21 / 302+
Tv	463 / 1+
Tv, input control	463 / 36+

Puzzle	273 / 153 R+
Design	D21 / 478
Jigsaw type	428 / 33
Locks	70 / 289



Example 1

US patent number:
0053561 A

USPC:

273/243 - Chance device controls amount or direction of movement of piece

283/49 - Printed Matter: Game

CPC:

A 63 F 3/00006 - Board games played along a linear track, e.g. game of goose, snakes and ladders, along an endless track

M. Bradley,
Game Board.
N^o 53561. *Patented Apr. 3, 1866.*

*Patented
M. Bradley
J. M. J. J. J. J.*



*Inventor,
M. Bradley*

Fig. 1.



Example 2

US patent number:

US 0524212 A

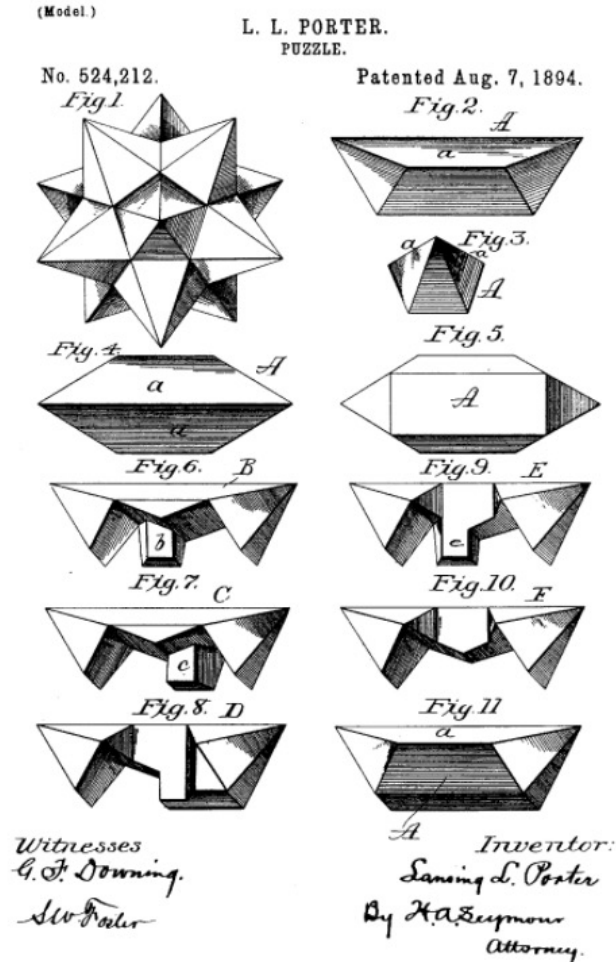
USPC:

273/160 - Mortised blocks,

D21/479 - Interfitting elements (e.g., take apart and put together)

CPC:

A 63 F 9/12 - Three-dimensional jig-saw puzzles



Example 4

US patent number:

US 0779861 A

USPC:

273/156 - Take-aparts and put-togethers

CPC:

A 63 F 9/12 - Three-dimensional jig-saw puzzles

No. 779,861.

PATENTED JAN. 10, 1905.

G. J. MARINGER.
PUZZLE.

APPLICATION FILED JULY 12, 1904.

Fig. 1.

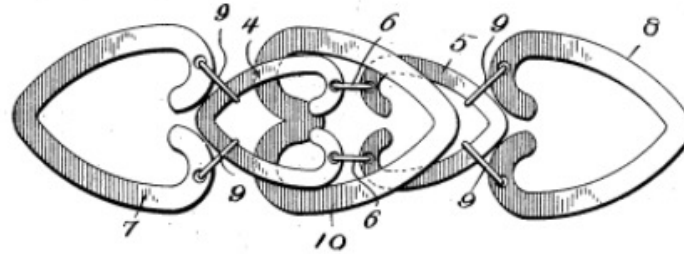
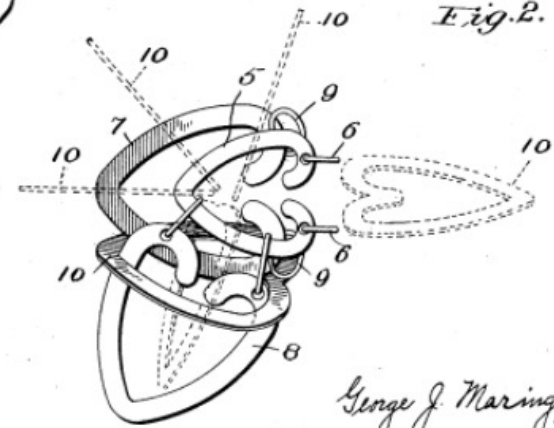


Fig. 2.



*Wm. F. K. Doyle
Matchless*

*George J. Maringer
Inventor*

Milo B. Stevens and Co.

Attorneys

Example 5

US patent number: 952,939.

US 952939 A

USPC:

273/303 - Suits

CPC:

A 63 F 1/02 -
Cards; Special
shapes of cards

G. S. PARKER.
GAME CARDS.
APPLICATION FILED APR. 7, 1909.

Patented Mar. 22, 1910.



Witnesses:
Freeman A. Bishop.
Herbert A. Crossman.

Inventor:
George S. Parker
by Emery & Booth.
Att'ys.

uspto

Example 6

US patent number:

US D051623 S

USPC:

D21/360 - GAME OR
GAMBLING ARTICLE:

Board or surface:

Simulative: Animate

51,623.

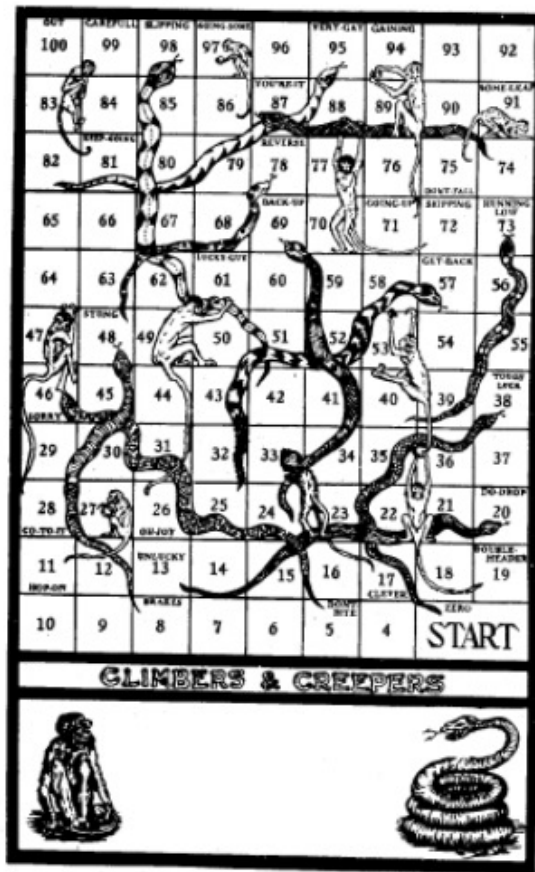
DESIGN.

W. G. YOUNG.

GAME BOARD.

APPLICATION FILED OCT. 27, 1917.

Patented Dec. 18, 1917.



Example 7

April 11, 1933.

W. H. STOREY

1,903,661

APPLIANCE FOR PLAYING GAMES

Filed Aug. 4, 1930

US patent number:

US 1903661 A

USPC:

273/248 - Race to a finish (e.g., backgammon)

CPC:

A 63 F 3/00088 - Board games concerning traffic or travelling

A 63 F 3/00006 - Board games played along a linear track, e.g. game of goose, snakes and ladders, along an endless track

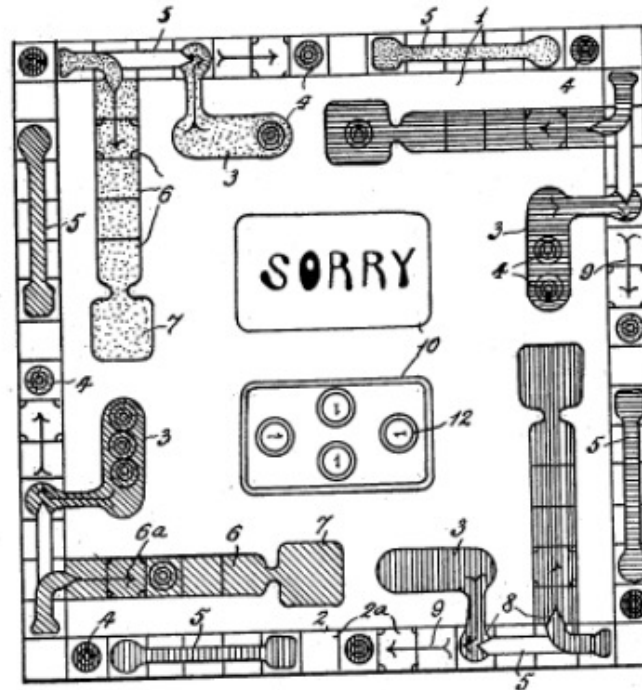


Fig. 1.

Example 8

US patent number:

US 2026082 A

USPC:

273/256 - Property or commodity transactions

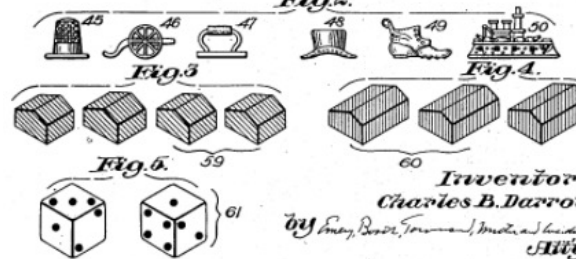
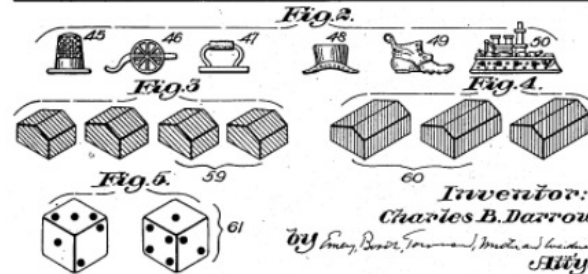
D21/350 - Board or surface; Simulative

CPC:

A 63 F 3/00072 - played along an endless track, e.g. monopoly

A 63 F 3/00006 - Board games played along a linear track, e.g. game of goose, snakes and ladders, along an endless track

Dec. 31, 1935. C. B. DARROW 2,026,082
BOARD GAME APPARATUS
Filed Aug. 31, 1935 7 Sheets-Sheet 1



Inventor:
Charles B. Darrow.
by Emory, Dewitt, Townsend, Moore, and Gardner
Attys.



Example 10

US patent number:

US 3485496 A

USPC:

273/157R - Geometrical figures, pictures, and maps

446/110 - CONSTRUCTION TOY: Including connectable panels or strips: And door, window or perfecting structure for building

CPC:

G 09 B 1/36 - Manually or mechanically operated educational appliances using elements forming, or bearing, symbols, signs, pictures, or the like which are arranged or adapted to be arranged in one or more particular ways: comprising elements to be used without a special support: the elements being connectible by corresponding projections and recesses

A 63 F 9/10 - Two-dimensional jig-saw puzzles

A 63 F 9/12 - Three-dimensional jig-saw puzzles

A 63 F 2009/1248 - with a final configuration representing a house or other building

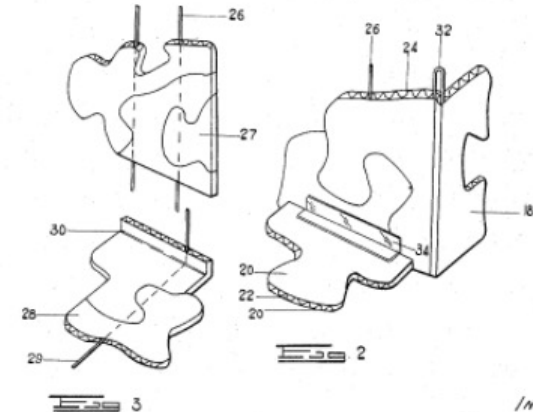
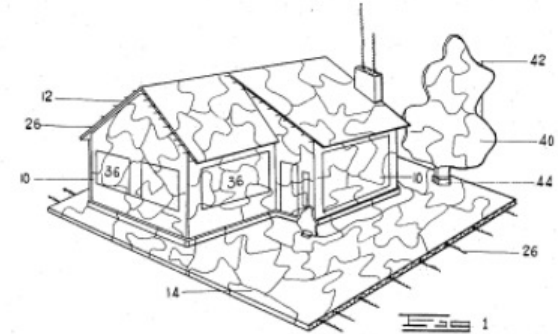
Dec. 23, 1969

P. E. BRUNTON

3,485,496

JIGSAW PUZZLES

Filed July 31, 1967



INVENTOR

PHILLIP E. BRUNTON
By Young & Thompson
ATTY

Example 11

US patent number:

US 4378116 A

USPC:

273/153S - Shifting movement

CPC:

A 63 F 9/0834 - Puzzles provided with elements movable in relation, {i.e. movably connected}, to each other: Three-dimensional puzzles with slidable or rotatable elements or groups of elements, the main configuration remaining unchanged, e.g. Rubik's cube: comprising only two layers, e.g. with eight elements

United States Patent [19]

Rubik

[11] 4,378,116

[45] Mar. 29, 1983

[54] SPATIAL LOGICAL TOY

[75] Inventor: Ernő Rubik, Budapest, Hungary

[73] Assignee: Politoys Ipari Szövetkezet, Budapest, Hungary

[21] Appl. No.: 289,192

[22] Filed: Aug. 3, 1981

[30] Foreign Application Priority Data

Oct. 28, 1980 [HU] Hungary 2598/80

[51] Int. Cl.³ A63F 9/08

[52] U.S. Cl. 273/153 S

[58] Field of Search 273/153 S, 155

[56] References Cited

FOREIGN PATENT DOCUMENTS

170062 2/1978 Hungary 273/153 S

OTHER PUBLICATIONS

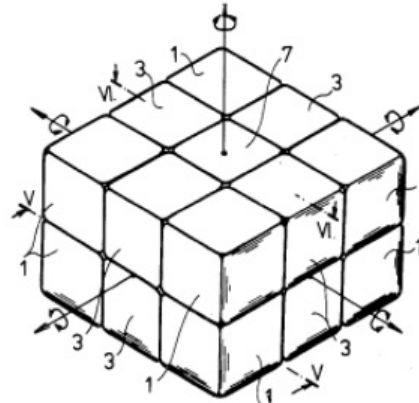
Scientific American, Mar. 1981, p. 39.

Primary Examiner—Anton O. Oechsle
Attorney, Agent, or Firm—Gabriel P. Katona

[57] ABSTRACT

A spatial logical toy is formed from a total of eighteen toy elements, out of which two sets of eight identical toy elements two connecting elements are provided. The elements of the two sets have cam members with hollows with spherical convex or concave surfaces in-between. The elements are connected by the aid of the cams and the two remaining centrally positioned substantially identical connecting elements each having a T-shape cross-section and when assembled the toy is in the form of a regular or an irregular solid. Fixation is performed by one single screw passing through bores in the connecting elements. In such a manner the toy elements forming the lateral faces of the spatial logical toy can be rotated along the spatial axes and by yielding several variation possibilities the toy is well suitable for stimulating logical thinking activity.

7 Claims, 12 Drawing Figures



Example 12

US patent number:
US 5681041 A

USPC:

273/157R - Geometrical figures, pictures, and maps

D21/615 - Animate Figure: Dinosaur or dragon

428/16 - THREE DIMENSION IMITATION OR

"TREATED" NATURAL PRODUCT: Fauna

273/160 - Mortised blocks

446/114 - Connected with adjacent edges transversely oriented

428/33 - PLURAL PARTS WITH EDGES OR TEMPORARY JOINING MEANS EACH COMPLEMENTARY TO OTHER

446/377 - Having movably joined body parts: Walking

CPC:

A 63 F 9/12 - Three-dimensional jig-saw puzzles



US005681041A

United States Patent [19]
Coon

[11] Patent Number: **5,681,041**
[45] Date of Patent: **Oct. 28, 1997**

[54] **THREE DIMENSIONAL PUZZLE**

[76] Inventor: **Raymond S. Coon**, 109 Boley St., Oak Hill, W. Va. 25901

[21] Appl. No.: **721,016**

[22] Filed: **Sep. 26, 1996**

Related U.S. Application Data

[60] Provisional application No. 60/004,629 Nov. 26, 1995.

[51] Int. Cl.⁶ **A63F 9/12**

[52] U.S. Cl. **273/157 R; 273/160; 446/114; 446/377**

[58] Field of Search **273/153 R, 157 R, 273/160, 156; 446/113, 114, 115, 377**

[56] **References Cited**

U.S. PATENT DOCUMENTS

- D. 257,369 10/1980 Kodaka
- D. 257,370 10/1980 Kodaka
- D. 257,371 10/1980 Kodaka
- D. 257,372 10/1980 Kodaka
- D. 257,373 10/1980 Kodaka

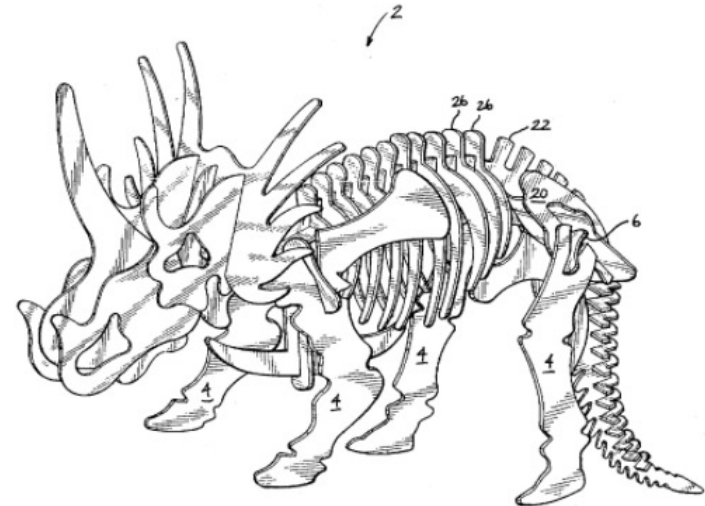
- D. 257,514 11/1980 Kodaka
- 1,211,590 1/1917 Kennedy
- 1,706,388 3/1929 Ashkenas
- 1,910,089 2/1933 Chomik
- 2,585,419 2/1952 Zatlengo
- 3,407,530 10/1968 Grant et al.
- 3,468,056 9/1969 Guedi et al.
- 3,570,169 3/1971 Jacob
- 4,118,887 10/1978 Appelman
- 4,192,509 3/1980 Singh
- 4,570,936 2/1986 Meiser et al.

Primary Examiner—Steven B. Wong
Attorney, Agent, or Firm—Richard C. Litman

[57] **ABSTRACT**

A three-dimensional, representational puzzle having frictionally mating pieces with selected pivoting pieces which allow motion of the puzzle when assembled. The exemplary puzzle is representative of a dinosaur, wherein a V-shaped cut-out is provided in a pivoting piece representing a leg, on which a slitted piece supporting the body of the dinosaur rests. A puzzle representing a dinosaur which can rock on its appendages or otherwise positioned is thereby created.

3 Claims, 3 Drawing Sheets



USPTO Resources

www.uspto.gov

The screenshot shows the USPTO website homepage. At the top left is the 'uspto' logo and 'UNITED STATES PATENT AND TRADEMARK OFFICE'. To the right are links for 'About Us', 'Jobs', 'Contact Us', and 'MyUSPTO', along with a search bar for 'uspto.gov'. A navigation menu below includes 'Patents', 'Trademarks', 'IP Policy', and 'Learning and Resources'. A 'Find It Fast' button is also present. The main content area features a large image of Patricia Bath, a smiling woman in a lab coat, with a microscope in the foreground. Below the image is a blue banner with the text 'Sights on the prize' and a link to 'How Patricia Bath, physician and inventor, made it from Harlem to the Hall of Fame FULL STORY>'. To the right of the image is a sidebar with a 'Public Events' and 'Initiatives' dropdown menu, and a 'New to IP?' section containing links for 'Patent basics', 'Trademark basics', 'Inventor & entrepreneur resources', 'Access our free services', 'USPTO in your region', and 'COVID-19 Response Resource Center'. Red arrows point from the 'Learning and Resources' menu item to the 'New to IP?' section, and from the 'USPTO in your region' and 'COVID-19 Response Resource Center' links to their respective text annotations on the right.

Entrance into education for inventors, entrepreneurs, start-ups, kids, and teachers.

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Easy access to COVID-19 relief and support



www.uspto.gov

Directory of support centers including Public search facility, Trademark Assistance, and Inventor Assistance information pages

Link for information page with Patent Public Search link and PTRC locations

The screenshot shows the USPTO website header and navigation menu. The header includes the USPTO logo, the text "UNITED STATES PATENT AND TRADEMARK OFFICE", and navigation links for "About Us", "Jobs", "Contact Us", and "MyUSPTO". A search bar is located in the top right corner. The navigation menu is divided into four main sections: "Patents", "Trademarks", "IP Policy", and "Learning and Resources". The "Learning and Resources" section is expanded, showing a grid of links categorized into "Resources by audience", "Help by topic", "Services & publications", and "Tools & links".

- Resources by audience:**
 - Attorneys, agents & paralegals
 - Inventors & entrepreneurs
 - Kids & educators
 - Media
 - Researchers & librarians
 - Patent & trademark practitioners
- Help by topic:**
 - Fees and payment
 - General FAQs
 - Patents FAQs
 - Trademark FAQs
 - Transferring ownership / Assignments help
- Services & publications:**
 - Open data & mobility
 - Federal Register Notices
 - Official Gazette
 - Support centers
 - XML resources
 - Classification
- Tools & links:**
 - Operational status
 - Guidance documents
 - Subscriptions
 - IP programs and awards
 - Events
 - Glossary of terms
 - How-to videos
 - Statistics
 - More tools & links

Below the navigation menu, there is a featured article titled "Sights on the prize" with a sub-headline "How Patricia Bath, physician and inventor, made it from Harlem to the Hall of Fame FULL STORY>".

Inventors Assistance Center (IAC)

The Inventors Assistance Center (IAC) provides patent information and services to the public. The IAC is staffed by former supervisory patent examiners and experienced former primary examiners who answer general questions concerning patent examining policy and procedure.

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8:30 a.m. – 8 p.m. ET,
except federal holidays

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(800-786-9199)
- 571-272-1000

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800-877-8339 for
customer assistance**

<https://www.uspto.gov/learning-and-resources/support-centers/inventors-assistance-center-iac>



Trademark Assistance Center (TAC)

- Provides general information about the registration process
- Responds to status inquiries
- Hours of Operation
 - 8:30 a.m. – 8 p.m. (ET), Monday through Friday
- Phone
 - (571) 272-9250 (press 0) or (800) 786-9199 (press 1)
- Email
 - TrademarkAssistanceCenter@uspto.gov
- Webpage: www.uspto.gov/TrademarkAssistance



Other USPTO resources

General Information: 1-800-PTO-9199

Resource	Website
Utility patent application guide	www.uspto.gov/patents/resources/types/utility.jsp
Patent process	www.uspto.gov/patents/process
Patent search guide	www.uspto.gov/patents/process/search
Inventor and entrepreneur resources	www.uspto.gov/inventors
Pro se assistance	www.uspto.gov/ProSePatents
Micro entity Information	www.uspto.gov/PatentMicroentity





Thank you!

Julie Brockett & David Duffy

Quality Assurance Specialists, TC 3700

Julie.Brocketti@uspto.gov

David.Duffy@uspto.gov

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