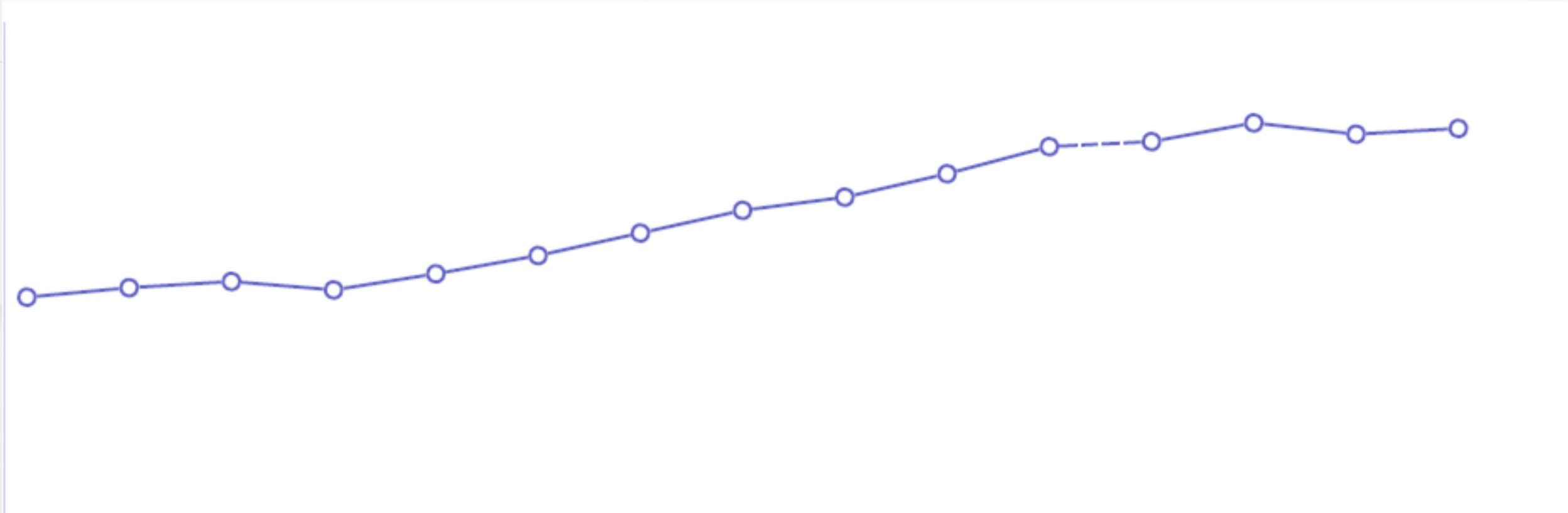


**“Immature humorists borrow,  
mature humorists steal”**

**-Mark Twain**

**Pharma employees...**

**Innovate**





Software for  
Business Intelligence

**BizInt Smart Charts**

# Have we seen this family before?

## *PIUG Annual Meeting*

### *May 3, 2022*

*Matt Eberle*

*Lead Developer, Analytics & Custom Solutions*

*BizInt Solutions, Inc.*

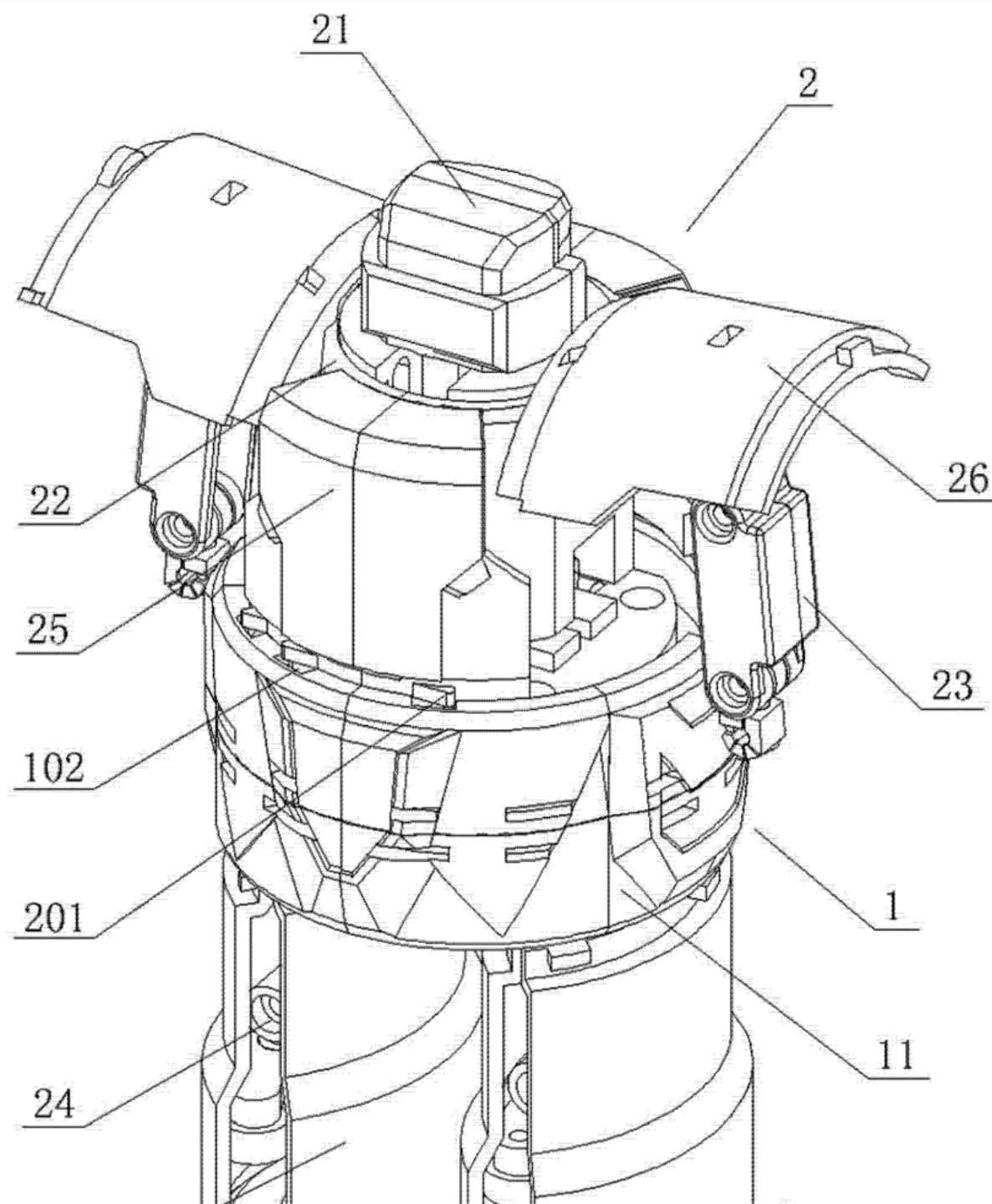


**BizInt Smart Charts**

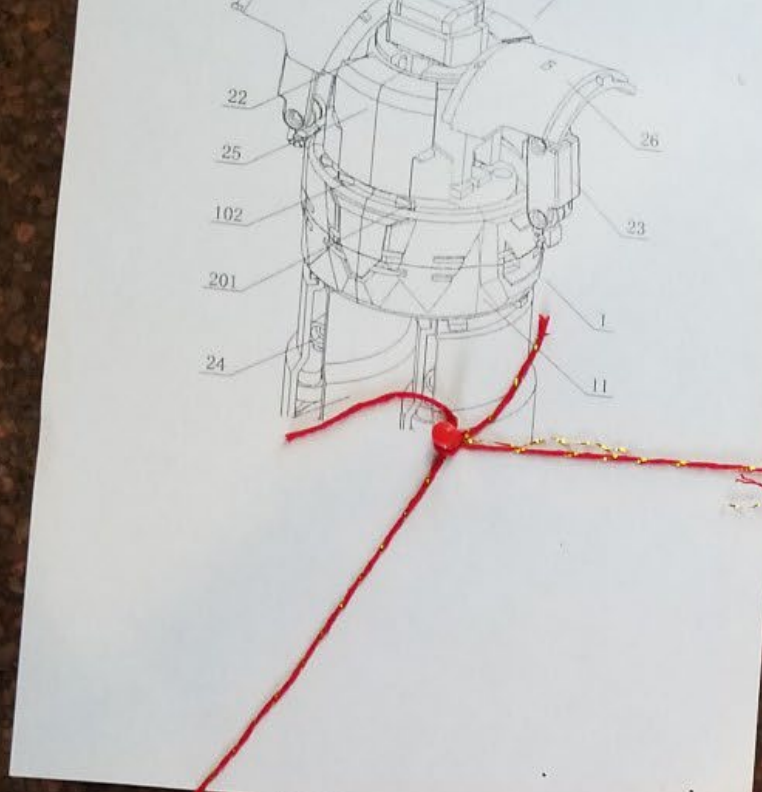
id	title
CN-202315	Funny transformation toy

id	title	priority date	filing/creation date	publication date
CN-102555	Combined toy with strong fun	CN-106698	A kind of monitoring system for being used to so	1/20/17 1/20/17 3/27/18
CN-210931	Finger rehabilitation training c	KR-101723	Apparatus for air shooting able to get the image c	12/12/16 12/12/16 4/6/17
JP-200720	Separable and/or assemblable	CN-106530	Improved-deep-learning-based intelligent came	11/18/16 11/18/16 3/22/17
CN-201031	Chinese pinyin multifunctiona	CN-206192	Blind ultraviolet image intensifier spatial resolut	11/3/16 11/3/16 5/24/17
CN-261454	Health care magnetic therapet	CN-106500	A kind of day blind ultraviolet imaging enhancer	11/3/16 11/3/16 5/31/19
US-461792	Adapter for definition of the p	CN-106251	A kind of estimation based on multiple image fuz	7/19/16 7/19/16 12/21/16
US-201707	Framework for Abnormality D	KR-201701	Deposition Chamber Resolving Blind Area	2/29/16 2/29/16 9/7/17
US-619357	Bubbling brain novelty	CN-205554	Solve camera device of car A post blind area	2/26/16 2/26/16 9/7/16
GR-201301	Ignition delay in internal comk	CN-205554	Solve delivery vehicle rear side blind area sight a	12/26/15 12/26/15 9/7/16

id	title	assignee	inventor/s	priority date
WO-20040	Novitsky method for systemat	IT-UB2015	DEVICE TO TEMPORARILY RESOLVE THE A	
CN-211431	Filtering device for brain wave	CN-205241	Solve communication extension termina	CN-103062 Existing pipe rehabilitation method 7/17/08
CN-108901	A kind of brain-tonifying healt	CN-105539	Method for solving line of sight of blind	CN-102149 Chinese medicinal herb composition for treating cancers 4/15/11
CA-220798	Eye video display terminal pro	CN-205273	Solve delivery vehicle rear side blind are	BR-PI0621 method and system for firing mode suppression control Thomson Licensin Thomas P 7/6/06 1
YU-38294	BRAIN FUNCTION RECORDING	CN-105354	Blind deconvolution infrared spectrograi	CN-105534 Limb exercise rehabilitation device 2/12/16
YU-196-A	Magnetic stimulator of the blo	CN-105209	A kind of SAR image method for rebuildi	CN-102100 Intelligent sterile dispenser 3/15/11
CN-109251	A kind of health care's food an	CN-104899	Image Super-resolution processing meth	CN-102599 Food therapy prescription for treating diabetes 3/23/12
CN-871054	Novel neurotrophic factor	CN-104379	The deficient hybrid matrix recognition r	CN-203400 Traction frame used for patient suffering from lower limb fract 7/25/13
RU-207400	Game trainer-cylinder for grou	US-969293	Device, system, and method of blind del	KR-101528 walking training apparatus is based on a roof rail 7/19/13
RU-191580	Game simulator for group exe	EP-297424	Methods for blindly resolving an issue	CN-261246 Doubleduty glue gun 3/14/03
RU-191640	Bottle simulator for group exe	IT-ME2014	FLEXIBLE DISPLAYS AND VEHICLE CAMER	CN-101344 Pure natural medicament for treating diabetes 9/8/08
CN-210871	Anti-bruxism cloth	WO-20141	Apparatus and method for solving scale	CN-102579 Curculigo orchoides impotence eliminating pill 1/19/12
		KR-101446	Car resolving blind spot made by a-pillla	CN-110772 Hand trainer for rehabilitation of disabled 12/3/19
		CN-104421	Test method for solving magnetization b	US-201328 Determination of whether a luciferian can be rehabilitated First Principles, In Keith A. R 10/31/07
		KR-101311	Monitoring system capable of detecting	CN-106333 Wearable four-finger rehabilitation training device 9/23/16
		CN-203051	Digital portable high-resolution micro-bl	JP-317806 Finger function recovery aid 6/18/12
				CN-202021 Medical fracture lower limb fixer 4/12/11
				CN-202568 Treatment bag for pedopathy inflammation 5/5/12
				CN-203634 Lumbar disease rehabilitation treatment unit 1/1/14
				CN-103499 Ginseng-polygonatum sibiricum-cinnamomum cassia-gordon e 10/10/13 1
				ID-582008 Electric crane pillar with rehabilitation function 7/20/15



4



United States Patent  
The Patent Office  
4,656,917  
Apr. 14, 1987

Patent No. 4,656,917  
Date of Patent: Apr. 14, 1987

**ABSTRACT**  
A toy game for use in a classroom setting. The toy is a spherical device having a plurality of recesses on its surface. The recesses are of varying depths and are arranged in a hexagonal pattern. The toy is used to teach the concept of fractions. The toy is made of a material that is safe for children to use. The toy is made of a material that is safe for children to use. The toy is made of a material that is safe for children to use.



Rock  
and/or  
Roll?

Edward =  
Eddie??

United States Patent  
Nguyen et al.  
Patent No. US 8,864,548 B2  
Date of Patent: Oct. 21, 2014

**TOP WITH VISCOUS SKELETON**

Inventors: Viet Nguyen, Lakewood, CA (US); Michael O'Hara, Rockledge Beach, CA (US)

Assignee: Mattel, Inc., El Segundo, CA (US)

Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 287 days.

Appl. No. 13/421,494  
Filed: Mar. 15, 2012

**Pub. Publication Data**  
US 2012/023183 A1 Sep. 20, 2012

**Related U.S. Application Data**  
Provisional application No. 61/454,331, filed on Mar. 18, 2012.

**Int. Cl.**  
A63F 1/06 (2006.01)  
A63F 1/04 (2006.01)

**U.S. Cl.**  
CPC: A63F 1/04 (2013.01); A63F 1/06 (2013.01)  
Field of Classification Search: A63F 1/04 (2013.01); A63F 1/06 (2013.01); A63F 1/04 (2013.01); A63F 1/06 (2013.01)

**References Cited**  
U.S. PATENT DOCUMENTS  
3,393,888 A 8/19/68 Smith  
3,931,512 A 3/19/76 Hickman et al.

**ABSTRACT**  
A toy game has a hexagonal skeleton with one or more recesses extending inwardly or outwardly from the skeleton. The skeleton also includes one or more digital members that resemble a soft tissue coupled to a portion of the skeleton. The skeleton is a play set including one or more recesses in which a digital member is coupled to a portion of the skeleton. The skeleton is used to engage the child. A child can use a portion of the skeleton to engage the child. The skeleton is used to engage the child on the attached elements.

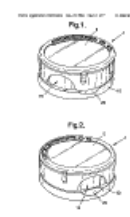
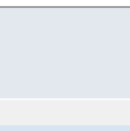
24 Pages, 4 Drawing Sheets

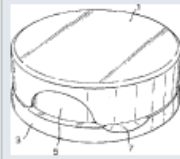
search URL: https://patents.google.com/?q=AB%253d%28novelty+brain%29&page=1&onq=AB%253d%28novelty+brain%29

id	title	assignee	inventor/as	priority dat	creat	publication	grant	date
RU-199395	Circle simulator for group classes on restoration and preventive training	D-DuDKD	D-DuDKD	9/19/19	9/19/19	11/6/19	11/6/19	
RU-1992638	Hexagon simulator with linear and hexagonal recesses for group exercis	D-DuDKD	D-DuDKD	7/19/19	7/19/19	9/24/19	9/24/19	
RU-204505	Game cube simulator for group exercises to restore finger and hand mo	D-DuDKD	D-DuDKD	3/28/21	3/28/21	5/28/21	5/28/21	
RU-192208	Square trainer for group classes on restoration and preventive training	D-DuDKD	D-DuDKD	7/8/19	7/8/19	9/6/19	9/6/19	
CN-202315	Funny transformation toy			10/31/11	10/31/11	7/11/12	7/11/12	
CN-201203	Box multi-card digital fancy educational toy for children			9/7/07	9/7/07	3/4/09	3/4/09	
CN-202015	Situational motor function rehabilitation training device for children			12/23/10	12/23/10	10/26/11	10/26/11	
CN-102335	Combined toy with strong funny property			10/31/11	10/31/11	2/1/12		
CN-210933	Finger rehabilitation training device for children			10/18/19	10/18/19	7/7/20	7/7/20	
JP-2007205	Separable and/or assemblable/disassemblable plate-like food material	Ishikame K. Noboru Kai		2/13/06	2/13/06	8/23/07		
CN-201035	Chinese pinyin multifunctional learning aid cartridge			6/13/06	6/13/06	3/12/08	3/12/08	
CN-261456	Health care magnetic therapeutic pillow			4/18/03	4/18/03	5/12/04	5/12/04	
US-461792	Adapter for definition of the position of brain structures	Laitinen La Lauri V. Lai		10/17/84	9/28/84	10/21/86	10/21/86	
US-201707	Framework for Abnormality Detection in Multi-Contrast Brain Magnetic	Siemens H. Hasan E. Co		9/15/15	9/15/15	3/16/17		
US-619357	Bubbling brain novelty	Thomas Ca Thomas Ca		10/22/99	10/22/99	2/27/01	2/27/01	
GR-201301	Ignition delay in internal combustion engines			10/3/13	10/3/13	5/18/15		
WO-20040	Novitsky method for systematic bio-energetic therapy	Novitsky V Vyacheslav		11/11/02	11/11/02	5/27/04		
CN-211432	Filtering device for brain wave signals			12/10/19	12/10/19	9/8/20	9/8/20	
CN-108902A	A kind of brain tonifying healthcare food			5/21/18	5/21/18	11/30/18		
CA-220798	Eye video display terminal protective gear	Martin Ree Martin Ree		6/27/97	6/27/97	12/27/98		
YU-38294	BRAIN FUNCTION RECORDING DEVICE IN THE FIELD OF COLOR RECOGNI	Djordjević Miroslav Dj		6/17/94	6/17/94	3/7/97		
YU-196-A	Magnetic stimulator of the blood circulation	Nikola Krsti Nikola Krst		1/3/96	1/3/96	11/5/98		

Import (version 1.0, 1998)

Title	MicroPatent micropat_mousetrap				Patent Assignee	Inventor(s)	Abstract	Advantages	
	Title	Patent Family							
		Patent	Kind	Date					
12 Mouse trap used at home has enclosure which is provided with top and base having aperture and indentation that can be aligned to open enclosure for entry of mouse, such that contra-rotation of top relative to base is enabled to trap mouse.	1	RODENT BAIT STATION	EP 1397040 AT 285676 BR 0210443 CN 1188034 CN 1516549 DE 60202467 DE 60202467 EP 1397040 GB 0114790 GB 0202788 GB 2384966 MX PA03011625	B1 T A C A D1 T2 A1 D0 D0 A A	2004-12-29	Reckitt Benckiser Inc.	DELLEVIGNE, Laura, A. SALMON, Scott WATTS, Eric Nelson TURCHI, Mario, Alexander	Disclosed is a rodent bait station (10) for the administration of a rodenticidal composition to rodents, i.e., rats and mice. Said rodent bait station (10) having a base portion (12) which is divided into a passage portion (120), and into a chamber portion (16), and which has hingedly attached a lockable cover (14) which has two portions, a passage cover (16) portion hingedly attached at one side [CONT.]	Does not need to make a user or homeowner from closing mouse trap after trapping of mouse, hence preventing possible transmission of disease caused by mouse to user or homeowner. Ensures trapping of mouse without actual observation of trapped mouse. Increases safety since inadvertent setting of trap and occurrence of injury can be prevented. Enables simple and efficient loading of a bait without requiring disassembly of mouse trap [CONT.]


Title	PatBase: patbase_mousetrap_dec06				International Patent Class	Patent Assignee	Advantages
	Title	Image	Abstract				
13 Portable electrical trap for capturing and killing a mouse, has vacuum source which sucks the mouse fully into a collection chamber within which the mouse is subsequently suffocated.	1	Mousetrap		Source: US2006185223AA With reference to a preferred embodiment as depicted in Fig. 4 the present invention provides a mousetrap comprising a first part (5) and a second part (10) that together define an enclosure wherein the first part (5) and the second part (10) are operably connected to a first biasing means (60). [CONT.]	A01M23/00 A01M23/16 A01M23/00	RECKITT BENCKISER AU PTY LTD	Prevents captured mice from escaping since the mouth of the trap automatically closes after each mouse enters the interior cavity of the trap.
14 Electrically operated rat- and mouse-trap, comprising contact plate and automatic removal system.	2	Source: CN1762213A The invention provides a mouse trap without bait comprising: main ...		Source: CN1762213A The invention provides a mouse trap without bait comprising: main body cover (1) overhang door(6) door line (7) door ridae (3) switch board (4) on-off	A01M23/20 A01M23/00	MENG SHANGKAI	The trap is efficient. Several dead rodents can be stored temporarily.


Title	Derwent World Patents Index: wpi_mousetrap							Advantages
	Title	Patent Assignee	Basic Patent Number	Derwent Class	Manual Code	Image	Abstr	
15 Mouse trap system has central display unit for receiving signals from traps to identify particular trap transmitting signal and its corresponding position of moving portion for displaying trap current state.	12	Mouse trap used at home has enclosure which is provided with top and base having aperture and indentation that can be aligned to open enclosure for entry of mouse, such that contra-rotation of top relative to base is enabled to trap mouse.	RECKITT BENCKISER AUSTRALIA PTY LTD RECKITT BENCKISER UK LTD	WO 2005051079 A1	P14		WO2005051079 A 20050624 NOVELTY: The mo enclosure having a base (3) respective an aperture (5) and (7). The manual ro relative to the base open the enclosure alignment of the a indentation. The cc the top relative to t performed upon er	Allows an operator to easily identify which of the traps needs to be tended, by providing central display unit which displays current state of the traps using LEDs.




Combine (version 2.0, 2000)

# Combine searches from multiple databases...




Title	Patent Family			Image	Abstract	Probable Assignee	Claims	Status
	Patent	Kind	Date					
1 COMPOSITIONS AND METHODS FOR TARGETED GENE DISRUPTION IN PROKARYOTES	WO/2015/07193	A1	2015-05-14		Source: US2015132293 The present disclosure relates to engineered bacteriophage vector compositions comprising nucleic acids that express recombinant nucleases also provided are methods of using engineered bacteriophage vectors to effect genomic disruption or targeted gene disruption in prokaryotes. [CONT.]	RADIANT GENOMICS INC	US201513223AA	DEAD
	US 201513223	A	2015-05-14					
	US 201503391	A	2015-05-10					
	US 201507290	A2	2015-05-28					
	US 201507290	A3	2015-05-28					




A Clarivate Analytics company

Title	Patent Family			Patent Assignee	Abstract	Therapeutic Activity	Technology Focus
	Patent	Kind	Date				
1 Altering a target nucleic acid in a cell by introducing into the cell a first foreign nucleic acid encoding a guide RNA sequence complementary to DNA, and a second foreign nucleic acid encoding a Cas9 protein	US 20150140654	A1	2015-05-21	HARVARD COLLEGE BYRNE S M CHURCH G M	Alteration of a target nucleic acid in a cell comprises introducing into the cell a first foreign nucleic acid encoding one or more guide RNA sequences complementary to DNA, where the DNA includes the target nucleic acid, introducing into the cell a second foreign nucleic acid encoding a Cas9 protein that binds to the DNA and is guided by the one or more guide RNA sequences, introducing into the cell a third foreign nucleic acid encoding an exogenous nucleic acid sequence to be included into the target nucleic acid sequence. [CONT.]	Antibacterial, Immunosuppressive, Anti-inflammatory, No biological data given.	Preferred Bacteriophage. In the bacteriophage, the prokaryotic host cell is an antibiotic-resistant host cell and the target DNA sequence is within a gene that confers resistance to the antibiotic. The prokaryotic host cell is of a species selected from Escherichia coli, Acinetobacter baumannii, Enterococcus faecalis, Enterococcus faecium, Pseudomonas aeruginosa, Staphylococcus aureus. [CONT.]
	WO 201507290	A2	2015-05-28				
	WO 201507290	A3	2015-05-28				
	CA 2930828	A1	2015-05-28				
	AU 2014353100	A1	2016-06-02				
	KR 2016078502	A2	2016-09-04				
	EP 3071698	A	2016-12-08				
	EP 3071698	A4	2017-05-29				
	HK 1229380	A	2017-11-17				
	EP 3071698	B1	2019-09-04				



Title	FTO Family with Expiry			Status	Est Expiry	Patent Assignee	Inventor(s)	Abstract	
	Pub No.	Kind	Pub Date						
1 RNA guided transcriptional regulation	US 9267135	B2	2016-02-23	ALIVE	GRANTED	2034-06-04	HARVARD COLLEGE	CHURCH GEORGE M MALI PRASHANT G ESVELT KEVIN M	(US9267135) Methods of modulating expression of a target nucleic acid in a cell are provided including introducing into the cell a first foreign nucleic acid encoding one or more RNA complexes to DNA, wherein the DNA includes the target nucleic acid, introducing into the cell a second foreign nucleic acid encoding a nuclease-null Cas9 protein that binds to the DNA and is guided by the one or more RNA complexes. [CONT.]
	US 20140356959	A1	2014-12-04						
	US 10640789	B2	2020-05-05	ALIVE	GRANTED	2034-06-04			
	US 20160237456	A1	2016-08-19	ALIVE	GRANTED	2034-06-04			
	US 10787904	B2	2020-09-08	ALIVE	GRANTED	2034-06-04			
	US 2020020418	A1	2020-01-23	ALIVE	PENDING	2034-06-04			
	US 20140356959	A1	2014-12-04	ALIVE	PENDING	2034-06-04			
	US 20200299732	A1	2020-09-24	ALIVE	PENDING	2034-06-04			
	EP 3071698	B1	2019-09-04	ALIVE	GRANTED	2034-11-19	HARVARD COLLEGE	BYRNE SUSAN M CHURCH GEORGE M	(EP3071698) Methods of simultaneously excising large nucleic acid sequences from a target nucleic acid and inserting large foreign nucleic sequences into the target nucleic acid sequence using DNA binding protein nucleases are described. [CONT.]
	EP 3071698	A2	2017-05-28	ALIVE	GRANTED	2034-11-19			



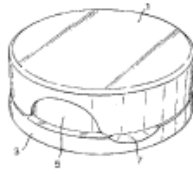

Title	Patent Family			Patent Assignee	Inventor(s)	Seq. ID Number	Query Pct Identity	Subject Length	Patent Sequence Location
	Patent	Kind	Date						
1 LARGE GENE EXCISION AND INSERTION	WO201507290	A2	20150528	HARVARD UNIVERSITY BYRNE SUSAN M CHURCH GEORGE M	Church George M. Mali Prashant G. Esvelt Kevin M.	US9267135-0001	100.00	1368	probable disclosure (not found by automated parsing)
	AU2014323100	A1	20150528						
	CA2930828	A1	20150528						
	DK3071698	A1	20150528						
	EP3071698	A1	20150528						
	EP3064543	A1	20150528						
	JP201683782	A1	20150528						
	KR102016078502	A1	20150528						
	US20150140654	A1	20150521						
	US2015106964	A1	20150521						

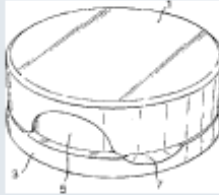

Number	Patent Assignee	Inventor(s)	Priority Information		Priority Date
			Number	Date	
6959 A1 B2	HARVARD COLLEGE CHURCH G M ESVELT K M MALI P G	CHURCH, George M. MALI, Prashant G. ESVELT, Kevin M.	US2013830787P	2013-06-04	2013-06-04
			WO2014US40868A	2014-06-04	
B2 6959 A1 9 B2 7456 A1 4 B2 4618 A1	HARVARD COLLEGE	CHURCH GEORGE M MALI PRASHANT G ESVELT KEVIN M	2013US-61830787	2013-06-04	2013-06-04
			2014US-14319289	2014-06-30	
			2014US-14319530	2014-06-30	
			2014WO-US40868	2014-06-04	
			2016US-15049451	2016-02-22	
			2019US-16441209	2019-06-14	
6959 A1 955	HARVARD UNIVERSITY	Church George M. Mali Prashant G. Esvelt Kevin M.	US201361830787	2013-06-04	2013-06-04
			US2014040868	2014-06-04	
			US201414319530	2014-06-30	
			US201414319289	2014-06-30	
6959 959 7456 456 4618	HARVARD COLLEGE; President and Fellows of Harvard College	Church George M. Mali Prashant G. Esvelt Kevin M.	US201361830787	2013-06-04	2013-06-04
			US2014040868	2014-06-04	
			US201414319530	2014-06-30	
			US20130906188P	2013-11-19	
			WO2014US66324	2014-11-19	
664 A 4 B	HARVARD COLLEGE PRESIDENT AND FELLOWS OF HARVARD COLLEGE	BYRNE SUSAN M CHURCH GEORGE M GEORGE M CHURCH SUSAN M BYRNE	EP20140864325	2014-11-19	2014-11-19
			JP20160532531T	2014-11-19	
			EP20190230265	2019-12-20	
			US20140319693	2014-06-30	
			US20130906188P	2013-11-19	

the 5' end of the guide RNA, wherein the guide RNA is a tracrRNA-cRNA fusion. [CONT.]

# Identify Common Patent Family (version 3.1.11, 2006)

# Have we seen this patent family in the other databases?

Title	Database	Patent Assignee	Image	Use
Mouse trap used at home has enclosure which is provided with top and base having aperture and indentation that can be aligned to open enclosure for entry of mouse, such that contra-rotation of top relative to base is enabled to trap mouse.	Derwent World Patents Index	RECKITT BENCKISER AUSTRALIA PTY LTD RECKITT BENCKISER UK LTD		For trapping and/or killing mice at home.
Mouse trap used in e.g. home, town center, has second rod	Derwent World Patents Index	SEKI N		For capturing mice and rats in e.g. home, town center.

Title	Common Family	Database	Patent Assignee	Image	Use
Mouse trap used at home has enclosure which is provided with top and base having aperture and indentation that can be aligned to open enclosure for entry of mouse, such that contra-rotation of top relative to base is enabled to trap mouse.	WO 2005051079	Derwent World Patents Index	RECKITT BENCKISER AUSTRALIA PTY LTD RECKITT BENCKISER UK LTD		For trapping and/or killing mice at home.
Mousetrap	WO 2005051079	PatBase	RECKITT BENCKISER AU PTY LTD RECKITT BENCKISER UK LTD RODGERS BRENDYN MURRAY WATSON DUNCAN MCLEOD WEST JEFFREY		

# Identify related records across databases...

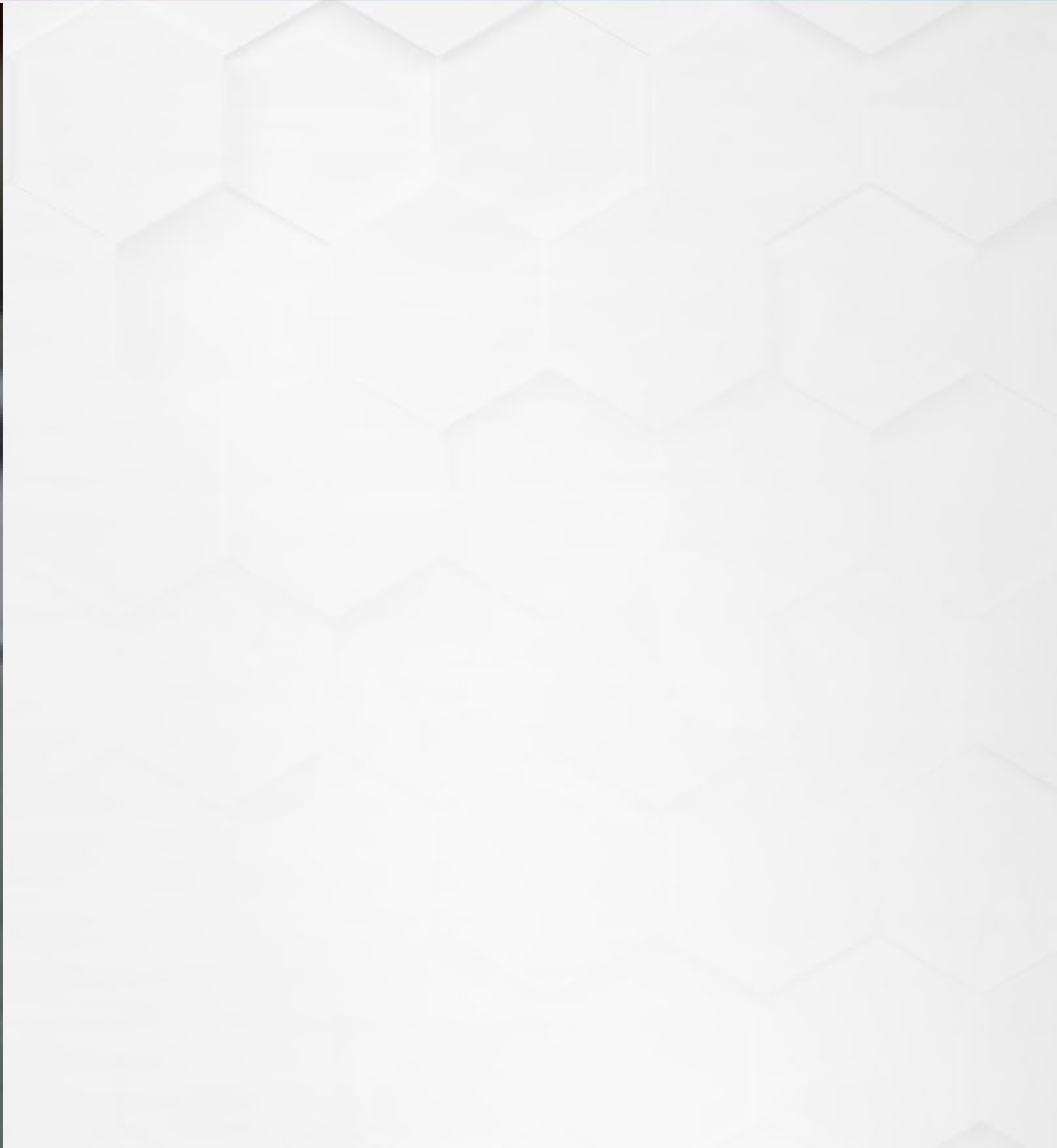
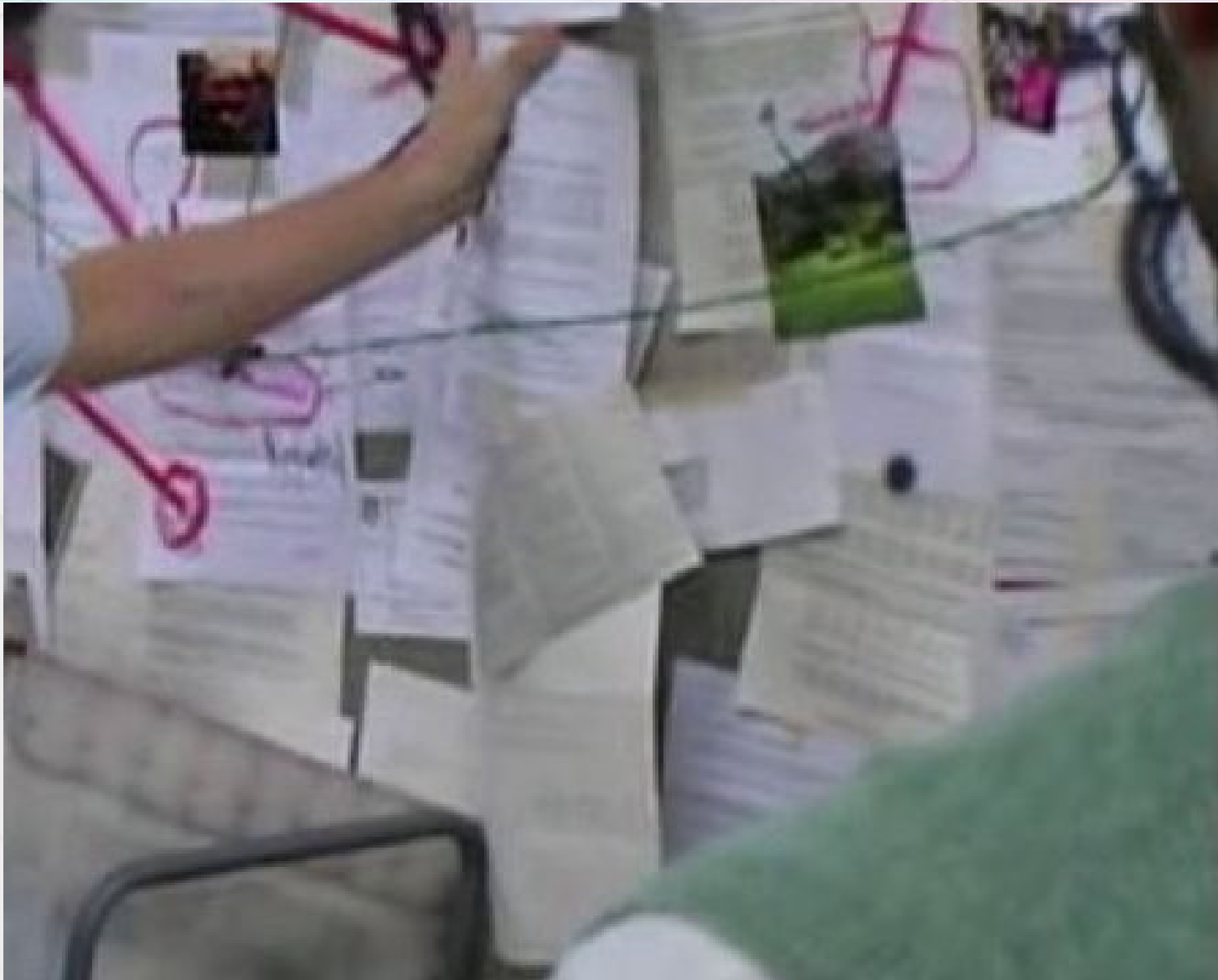
	Title	Database	Common Family	Patent Family			State	Patent Assignee
				Patent	Kind	Date		
1	New bacteriophage comprises polynucleotide expressing RNA-directed DNA-binding polypeptide comprising nuclease module, and targeting module comprising guide RNA, for restricting growth of host cell, and for preparing antiseptic composition	Derwent Innovation + DWPI	WO 2015070193	US 20150353901	A1	2015-12-10		RADIANT GENOMICS INC
2	New bacteriophage comprising polynucleotide that expresses RNA-directed DNA-binding polypeptide and targeting module comprising guide RNA, used e.g. for treating autoimmune and inflammatory disease, and disease caused by bacterial infection	Derwent Innovation + DWPI	WO 2015070193	US 20150132263	A1	2015-05-14		KIM J LIU O RADIANT GENOMICS INC
				WO 2015070193	A1	2015-05-14		
3	Compositions and methods for targeted gene disruption in prokaryotes	FAMPAT	WO 2015070193	WO 201570193	A1	2015-05-14	DEAD	ZYMERGEN
				US 20150132263	A1	2015-05-14		
				US 20150353901	A1	2015-12-10		
4	Compositions and Methods for Targeted Gene Disruption in Prokaryotes	GQPAT Gold+ Proteins	WO 2015070193	US20150353901		20151210		RADIANT GENOMICS, INC.
				US20150132263				
				WO2015070193				
5	COMPOSITIONS AND METHODS FOR TARGETED GENE DISRUPTION IN PROKARYOTES	GQPAT Gold+ Proteins	WO 2015070193	US20150132263		20150514		RADIANT GENOMICS; RADIANT GENOMICS INC
				US20150353901				
				WO2015070193				
6	COMPOSITIONS AND METHODS FOR TARGETED GENE DISRUPTION IN PROKARYOTES	PatBase	WO 2015070193	WO 2015070193	A1	2015-05-14	DEAD	KIM JEFFREY LIU OLIVER RADIANT GENOMICS INC
				US 2015132263	A	2015-05-14		
				US 2015353901	A	2015-12-10		

*Identify Common Patent Family tool assigns a Common Family number to related publications.*



**Update**

**Have we seen  
this patent  
family last  
month?**



Update (version 3.1.12, 2006)



# Update your reports and see what's changed...

Update your existing report...

New records and changes in updated records are highlighted.

	Title	FTO Family				Patent Assignee	Inventor(s)	Abstract
		Pub No.	Kind	Pub Date	Status			
1	Methods and compositions for sequences guiding cas9 targeting	W 02015112896	A2	2015-07-30		NORTH CAROLINA STATE UNIVERSITY	BARRANGOU RODOLPHE SELLE KURT M BRINER ALEXANDRAE	(WO2015112896) The present invention is directed to methods and compositions for genome editing and DNA targeting of proteins.
		W 02015112896	A3	2015-10-29				
		W 02015112896	A9	2015-11-26				
2	Rna modification to engineer cas9 activity	W 02015200555	A2	2015-12-30		CARIBOU BIOSCIENCES	MAY ANDREW PAUL DONOHOUE PAUL NYE CHRISTOPHER SLORACH EUAN HAURWITZ RACHEL	(WO2015200555) The disclosure provides for compositions, methods and kits, for reducing off-target effects of genome engineering. In one aspect, a composition is provided comprising an engineered nucleoprotein complex. [CONT.]
		W 02015200555	A3	2016-03-10				
3	Crispr-cas-related methods, compositions and components for cancer immunotherapy	W 02015161276	A2	2015-10-22		EDITAS MEDICINE	WELSTEAD G GRANT FRIEDLAND ARI E MAEDER MORGAN L BUMCROT DAVID A	(WO2015161276) CRISPR/Cas-related composition and methods for treatment of cancer, in particular by using gRNA molecules comprising a targeting domain which is complementary with a target domain from the FAS, BID, CTLA4, PDCC1, CBLB, PTPN6, TRAC or TRBC gene. In some embodiments, gRNAs are used with Cas9 enzymes to cause a cleavage event in said genes within engineered chimeric antigen receptor (CAR) T cells. [CONT.]
		W 02015161276	A3	2015-12-10				
4	Crisprcas-related methods and compositions for treating cystic fibrosis	W 02015157070	A2	2015-10-15		EDITAS MEDICINE	REYON DEEPAK MAEDER MORGAN L FRIEDLAND ARI E WELSTEAD G GRANT BUMCROT DAVID A	(WO2015157070) CRISPR/CAS-related compositions and methods for treatment of Cystic Fibrosis (CF).
		W 02015157070	A3	2015-12-30				

	Title	Row Status	Patent Assignee	FTO Family				Inventor(s)	New Publications
				Pub No.	Kind	Pub Date	Status		
1	Method for producing genome-edited plants using plant virus vectors	Added	NATIONAL AGRICULTURE & FOOD RESEARCH ORGANIZATION	WO 2018151155	A1	2018-08-23	LAPSED	ISHIBASHI Kazuhiro ARIGA Hirotaka TOKI Seichi KAYA Hidetaka	WO 2018151155 A1 US 20190359993 A1 JP 2018151155
				US 20190359993	A1	2019-11-28	PENDING		
				JP 2018151155W	A1	2019-12-12	PENDING		
2	Dna writers, molecular recorders and uses thereof	Added	MIT - MASSACHUSETTS INSTITUTE OF TECHNOLOGY US NAVY	WO 2018152197	A1	2018-08-23	LAPSED	FARZADFARD FAHIM LU TIMOTHY	WO 2018152197 A1 US 20200063127 A1
				US 20200063127	A1	2020-02-27	PENDING		
3	RNA-guided transcriptional regulation	Added	HARVARD COLLEGE	US 9267135	B2	2016-02-23	GRANTED	CHURCH GEORGE M MALI PRASHANT G ESVELT KEVIN M	US 9267135 B2 US 20140356959 A1 US 10640789 B2 US 20160237456 A1 US 10767194 B2 US 20200024618 A1 US 20140356956 A1 US 20200299732 A1
				US 20140356959	A1	2014-12-04			
				US 10640789	B2	2020-05-05	GRANTED		
				US 20160237456	A1	2016-08-18			
				US 10767194	B2	2020-09-08	GRANTED		
				US 20200024618	A1	2020-01-23			
4	Compositions and methods for targeted gene disruption in prokaryotes	Updated	ZYMERGEN	WO 201570193	A1	2015-05-14	LAPSED	LIU OLIVER KIM JEFFREY	
				US 20150132263	A1	2015-05-14	LAPSED		
				US 20150353901	A1	2015-12-10	LAPSED		
5	Large gene excision and insertion	Updated	HARVARD COLLEGE	EP 3071698	B1	2019-09-04		BYRNE SUSAN M CHURCH GEORGE M	EP 3071698 B1 EP 3071698 A2 EP 3071698 A4 EP 3604543 A1 US 10787684 B2 JP 2016537982 A JP 2020062033 A DK 3071698 ES 2754498 CA 2930828 A1 AU 2014353100 A1 KR 20160078502 A
				EP 3071698	A2	2016-09-28	GRANTED		
				EP 3071698	A4	2017-06-28			
				EP 3604543	A1	2020-02-05	PENDING		
				WO 201577290	A2	2015-05-28	LAPSED		
				WO 201577290	A3	2015-08-06			
				US 10787684	B2	2020-09-29	GRANTED		
				WO 201577290	A3	2015-08-06			
				US 20150140664	A1	2015-05-21			
				JP 2016537982	A	2016-12-08	PENDING		
				JP 2020062033	A	2020-04-23	PENDING		
				DK 3071698T	T3	2019-11-18	GRANTED		
				ES 2754498	T3	2020-04-17	GRANTED		
				CA 2930828	A1	2015-05-28	PENDING		
				AU 2014353100	A1	2016-06-02	PENDING		
KR 20160078502	A	2016-07-04	PENDING						

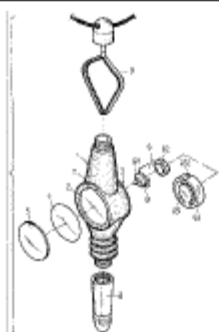
	Title	Patent Assignee	FTO Family				Inventor(s)	International Patent Class					
			Pub No.	Kind	Pub Date	Status							
1	RNA-guided transcriptional regulation	HARVARD COLLEGE	US 9267135	B2	2016-02-23	GRANTED	CHURCH GEORGE M MALI PRASHANT G ESVELT KEVIN M	C12N-009/22 C12N-015/01 C12N-015/10 C12N-015/11 C12N-015/113 C12N-015/115 C12N-015/63 C12N-015/66 C12N-015/85 C12N-015/87 C12N-015/90					
			US 20140356959	A1	2014-12-04								
			US 10640789	B2	2020-05-05	GRANTED							
			US 20160237456	A1	2016-08-18								
			US 10767194	B2	2020-09-08	GRANTED							
			US 20200024618	A1	2020-01-23								
			US 20140356956	A1	2014-12-04	PENDING							
			US 20200299732	A1	2020-09-24	PENDING							
			2	Dna writers, molecular recorders and uses thereof	MIT - MASSACHUSETTS INSTITUTE OF TECHNOLOGY US NAVY	WO 2018152197			A1	2018-08-23	LAPSED	FARZADFARD FAHIM LU TIMOTHY	C12N-009/22 C12N-009/78 C12N-015/11 C12N-015/62 C12N-015/63 C12N-015/85
						US 20200063127			A1	2020-02-27	PENDING		
3	Method for producing genome-edited plants using plant virus vectors	NATIONAL AGRICULTURE & FOOD RESEARCH ORGANIZATION	WO 2018151155	A1	2018-08-23	LAPSED	ISHIBASHI Kazuhiro ARIGA Hirotaka TOKI Seichi KAYA Hidetaka	A01H-001/00 C12N-005/10 C12N-005/14 C12N-015/09 C12N-015/82					
			US 20190359993	A1	2019-11-28	PENDING							
			JP 2018151155W	A1	2019-12-12	PENDING							
4	Large gene excision and insertion	HARVARD COLLEGE	EP 3071698	B1	2019-09-04		BYRNE SUSAN M CHURCH GEORGE M	A61K-038/43 C07H-021/02 C07H-021/04 C12N-009/14 C12N-009/22 C12N-009/52 C12N-015/00 C12N-015/09 C12N-015/10 C12N-015/83 C12N-015/64 C12N-015/90 C12Q-001/68					
			EP 3071698	A2	2016-09-28	GRANTED							
			EP 3071698	A4	2017-06-28								
			EP 3604543	A1	2020-02-05	PENDING							
			WO 201577290	A2	2015-05-28	LAPSED							
			WO 201577290	A3	2015-08-06								
			US 10787684	B2	2020-09-29	GRANTED							
			US 20150140664	A1	2015-05-21								
			JP 2016537982	A	2016-12-08	PENDING							
			JP 2020062033	A	2020-04-23	PENDING							
			DK 3071698T	T3	2019-11-18	GRANTED							
			ES 2754498	T3	2020-04-17	GRANTED							
			CA 2930828	A1	2015-05-28	PENDING							
			AU 2014353100	A1	2016-06-02	PENDING							
			KR 20160078502	A	2016-07-04	PENDING							

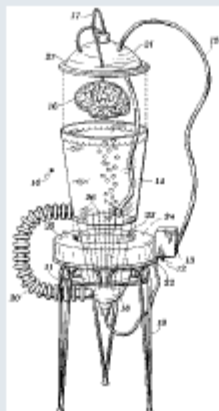
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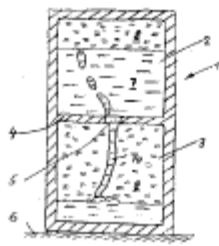
A close-up photograph of a stack of papers. A red pen with a silver tip is lying horizontally across the papers. The papers are slightly blurred, suggesting a shallow depth of field. The background is dark and out of focus.

**Update**

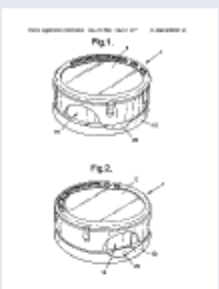
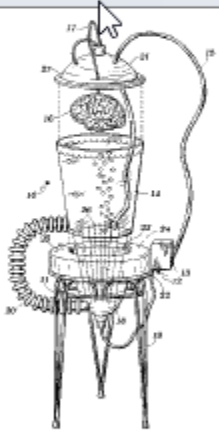

**Am I swiping  
this example  
from another  
talk?**


Title	Image	Abstract	International Patent Class	Patent Assignee
BUBBLE BLOWER COMBINATION TOY		Source: US6386935 A bubble blower combination toy includes a bubble blower formed of a liquid container and a bubble blowing shaft, the liquid container having a first recessed transparent chamber and a second recessed transparent chamber disposed at two opposite sides, a picture film mounted within the first recessed transparent chamber, a convex lens covered on the first recessed transparent [CONT.]	A63H33/22 A63H33/28 A63H5/00 G09F23/00 G09F23/04 A63H3/328 G09F23/02 G09F27/00	LIN MON SHENG RIN MOSEI

BUBBLING BRAIN NOVELTY		Source: US619 A transparent v life-like full sca fluid is used fo open on its top mounted on a bubbles are pr to the side of th
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Decorative object consists of hollow container divided into two chambers connected by channel, each of which contains a liquid, liquids being of different densities and viscosities		Source: DE100 The decorative container (1) d connected by a contains a liqu densities and opaque and/or into a lamp, an
--	--	---

ORNAMENTAL SPHERE		Source: US200 An ornamental transparent or base. The sph
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Title	Database	Patent Assignee	Image	Use
Mousetrap	PatBase	RECKITT BENCKISER AU PTY LTD		
BUBBLING BRAIN NOVELTY	PatBase	WEBER THOMAS CARL		
Portable electrical mouse trap	MicroPatent			
Portable electrical trap for capturing and killing a mouse, has vacuum source which sucks the mouse fully into a collection chamber within which the mouse is subsequently suffocated.	Derwent World Patents Index	JORDAN C		For capturing and killing a mouse.


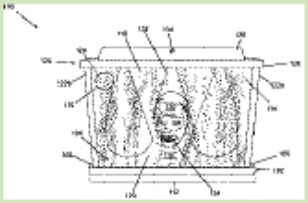
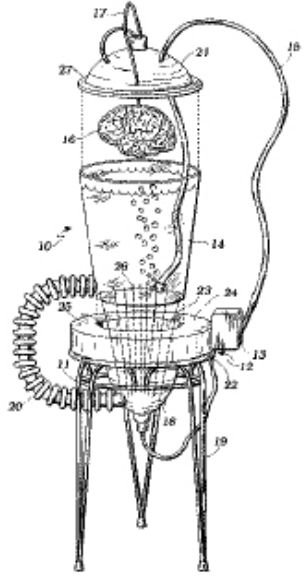
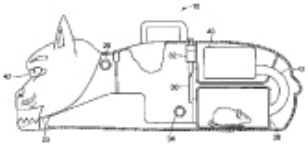
Title	Image	Abstract	International Patent Class			Patent Assignee			
Title	Database	Patent Family			Patent Assignee	Image			
		Patent	Kind	Date					
<b>TOY WITH VISCOUS SKELETON</b>	PatBase	US 2012238183	A	2012-09-20	NGUYEN VIET O HARE MICHAEL MATTEL INC				
US 8864548	B	2014-10-21	<b>AQUARIUM FACADE ASSEMBLY WITH ENCASED FAUX HUMAN HEAD</b>	PatBase		US 2020170228	A	2020-06-04	GRECO DOMINICK MICHAEL
US 10952413	B	2021-03-23	<b>BUBBLING BRAIN NOVELTY</b>	PatBase	US 6193578	B	2001-02-27	WEBER THOMAS CARL	

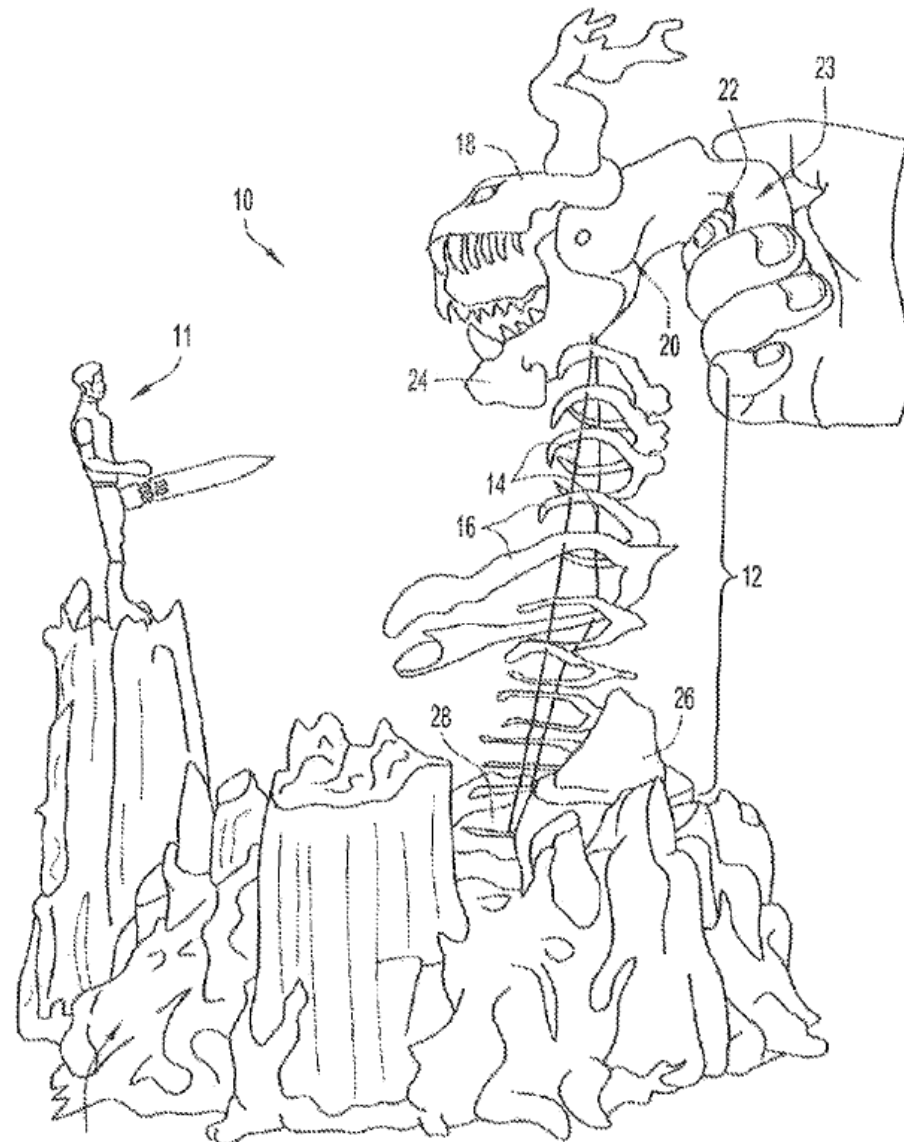
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	Title	Database	Patent Family			Patent Assignee	Image
			Patent	Kind	Date		
1 <a href="#">Link</a>	<b>TOY WITH VISCOUS SKELETON</b>	PatBase	US 2012238183 US 8864548	A B	2012-09-20 2014-10-21	NGUYEN VIET O HARE MICHAEL MATTEL INC	
2 <a href="#">Link</a>	<b>AQUARIUM FACADE ASSEMBLY WITH ENCASED FAUX HUMAN HEAD</b>	PatBase	US 2020170228 US 10952413	A B	2020-06-04 2021-03-23	GRECO DOMINICK MICHAEL	
3 <a href="#">Link</a>	<b>BUBBLING BRAIN NOVELTY</b>	PatBase	US 6193578	B	2001-02-27	WEBER THOMAS CARL	
4 <a href="#">Link</a>	<b>Portable electrical trap for capturing and killing a mouse, has vacuum source which sucks the mouse fully into a collection chamber within which the mouse is subsequently suffocated.</b>	Derwent World Patents Index	US 6865843	B1	20050315	JORDAN C	



+

hydrogel microspheres)  
RN 9002-89-5, CAPLUS  
CN Ethenol, homopolymer (CA INDEX NAME)  
CM 1  
CRN 557-75-5  
CME C2 H4 O



RE.CNT 48 THERE ARE 48 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d bib ab histr 2-94

L5 ANSWER 3 OF 94 CAPLUS COPYRIGHT 2022 ACS ON STN  
[PatentPak PDF](#) | [PatentPak PDF+](#) | [PatentPak Interactive](#)

AN 2021:2529277 CAPLUS Full-text  
DN 177:75140  
TI Preparation method of porous polyester microsphere and application thereof  
IN Wang, Gexia; Ji, Junhui; Lu, Bo; Zhen, Zhichao; Li, Fei  
PA Technical Institute of Physics and Chemistry, CAS, Peop. Rep. China  
SO Faming Zhuanli Shenqing, 15pp.  
CODEN: CNXKEV

DI Patent  
LA Chinese  
FAN.CNT 1

PATENT NO.	KIND DATE	LANGUAGE	PatentPak
CN 113683810	A 20211123	Chinese	<a href="#">PDF</a>   <a href="#">PDF+</a>   <a href="#">Interactive</a>

PATENT NO.	KIND DATE	APPLICATION NO.	DATE
CN 113683810	A 20211123	CN 2020-10415506	20200516

PATENT NO.	KIND STATUS	STATUS DATE
CN 113683810	A Alive	20211202

OS CASREACT 177:75140

AB The present disclosure provides a method for prep. porous polyester microspheres, including: S1, at the initial reaction temp., add the copolyester and the dispersant to the good solvent of the two, stir to dissolve, and raise the temp. to obtain a homogeneous soln.; S2, adding a poor solvent for the copolyester to the homogeneous soln., stirring until fully mixed and then standing, slowly cooling down, and depositing a ppt.; S3, after filtering, washing and drying the pptn. agent, porous polyester microspheres are obtained; Among them, the mol. chain segment of copolyester includes the chain segment of hardly hydrolyzable polyester and the chain segment of easily hydrolyzable polyester, and polyester is a random copolymer or block copolymer composed of fragments of hardly hydrolyzable polyester and fragments of easily hydrolyzable polyester. The prep. porous polyester microspheres can be used in the fields of cosmetics, pharmaceutical slow-release, coatings, toy bullets, etc., and the porous polyester microspheres have good biodegradability in seawater.

IT 9002-89-5

the threshold value of the REACH regulation published by European Union.  
IT 9002-89-5, Poly(vinyl alcohol)  
RL: AMX (Analytical matrix); ANST (Analytical study)  
(dctn. of polybrominated di-Ph ethers and organophosphate esters in children's plastic toys using gas chromatog., inductively coupled plasma mass spectrometry)  
RN 9002-89-5, CAPLUS  
CN Ethenol, homopolymer (CA INDEX NAME)

CM 1  
CRN 557-75-5  
CME C2 H4 O



PPPI  
PATENT NO. KIND DATE LANGUAGE PatentPak  
CN 113636783 A 20211112 Chinese [PDF](#)

PATENT NO.	KIND DATE	APPLICATION NO.	DATE
CN 113636783	A 20211112	CN 2021-10464895	20210428

PATENT NO.	KIND STATUS	STATUS DATE
CN 113636783	A Alive	20211128

AB The title thermochromic silica gel decompression toy comprises silica gel material 100-400 and additive 1-5 wt. parts. The silica gel material comprises hydrated silica 80-100, silicone oil 1-5, hydroxy acrylic resin 2-10, and Bu acetate 1-10 wt. parts. The additive comprises amino resin 10-30, polyol 2-8, monobasic alc. 1-3, color development reagent (bisphenol A, benzyl 4-hydroxybenzoate, etc.) 2-10, color masterbatch 2-10 and temp. control agent (dodecanol, tetradecanol, etc.) 1-3 wt. parts. The decompression toy also comprises surface treatment agent (hexadecanol, octadecanol, etc.), and antioxidant. The decompression toy changes color by sensing the temp. of human body, increases user experience and sensory pleasure, and avoids visual fatigue caused by seeing one color for a long time.

IT INDEXING IN PROGRESS  
IT 9002-89-5, Polyvinyl alcohol  
RL: TEM (Technical or engineered material use); USES (Uses)  
(thermochromic silica gel decompression toy)

RN 9002-89-5, CAPLUS  
CN Ethenol, homopolymer (CA INDEX NAME)

CM 1  
CRN 557-75-5  
CME C2 H4 O




# Where have we seen this structure before?

# Index of Hit Structures (version 4.5, 2017)



# Index of Hit Structures

	Substance	Structure	
1	<p>9002-89-5</p> <p>Ethenol homopolymer (CA INDEX NAME)</p>	<p>CM 1 CRN 557-75-5</p> 	<p>ultrafast thermo-responsive bilayer hydrogel a <a href="#">Reference 1</a></p> <p>detn. of polybrominated di-Ph ethers and orga inductively coupled plasma mass spectrometr <a href="#">Reference 2</a></p> <p>dispersant; prepn. method of porous polyester <a href="#">Reference 3</a></p> <p>thermochromic silica gel decompression toy <a href="#">Reference 4</a></p> <p>PVA 117; stretchable multifunctional hydrogel shielding properties <a href="#">Reference 5</a></p> <p>prepn. of antibacterial plastic for toys <a href="#">Reference 6</a></p> <p>personal dental care product for preventing de <a href="#">Reference 7</a></p> <p>personal dental care product for preventing de <a href="#">Reference 8</a></p> <p>prepn. method of boron-free and non-toxic ult <a href="#">Reference 9</a></p> <p>prepn. of environmentally-friendly material for <a href="#">Reference 10</a></p> <p>thickener; prepn. of gel material with excellent <a href="#">Reference 11</a></p> <p>fiber; prepn. method of ABS material for magr</p>

metalization layers

[Reference 77](#)

prepn. of colorful imitation sand grain and imitation sand glue for toys

[Reference 79](#)

clay-like elastic poly(vinyl alc.) gels contg. microballoons, glycerin, borax, urea, and water for toys

[Reference 80](#)

water-sol.; water-erasable aq. marking inks contg. water-sol. resins and food colorants for figure toy sets

[Reference 82](#)

aq. compn. for gel toys

[Reference 83](#)

reagent; chem. lab. expt. involving poly(vinyl acetate) glue prepn. and testing

[Reference 84](#)

adhesives for bonding joints for rods

[Reference 85](#)

gel; double-paned windows contg. electromagnetic wave-absorbing powder or fiber dispersion in aq. gel for electromagnetic shielding and sound insulation of pinball machines

[Reference 86](#)

lab. expt. in Slime prepn. using poly(vinyl alc.) bags

[Reference 87](#)

balloons from, water-sol., stained by food colors for environmental safety

[Reference 88](#)

coatings, contg. water-sol. carbohydrates, for elastomeric toy balloons with increased buoyancy

[Reference 89](#)

container sealer manuf. with, for bath prepps.


[Reference 90](#)

photosensitive films contg. dye and photoacid progenitor compd. and, giving phototranschromic effects

[Reference 91](#)

87.	<b>Title:</b> A bag of Slime: a novel lab procedure						
	<b>Patent Assignee:</b> Cabrini Coll., Radnor, PA, 19087, USA						
	<b>Abstract:</b> The use of poly(vinyl alc.) bags in prepn. Slime, a product of the Mattel Toy Corporation, is described. The Slime is prepd. by crosslinking gel made from Guar gum and borax. Safety precautions for the expt. are given.						
<b>Hit Index Terms:</b>	<table border="1"> <thead> <tr> <th>RN</th> <th>Role</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td>9002-89-5</td> <td>RL: BUU (Biological use, unclassified); RCT (Reactant); BIOL (Biological study); RACT (Reactant or reagent); USES (Uses)</td> <td>lab. expt. in Slime prepn. using poly(vinyl alc.) bags</td> </tr> </tbody> </table>	RN	Role	Notes	9002-89-5	RL: BUU (Biological use, unclassified); RCT (Reactant); BIOL (Biological study); RACT (Reactant or reagent); USES (Uses)	lab. expt. in Slime prepn. using poly(vinyl alc.) bags
RN	Role	Notes					
9002-89-5	RL: BUU (Biological use, unclassified); RCT (Reactant); BIOL (Biological study); RACT (Reactant or reagent); USES (Uses)	lab. expt. in Slime prepn. using poly(vinyl alc.) bags					

**Hit Structures:**

9002-89-5 ( <a href="#">Cmpd. 1</a> )	CM 1 CRN 557-75-5	RL: BUU (Biological use, unclassified); RCT (Reactant); BIOL (Biological study); RACT (Reactant or reagent); USES (Uses)
Ethanol, homopolymer (CA INDEX NAME)		lab. expt. in Slime prepn. using poly(vinyl alc.) bags

**Index Terms:**

9002-89-5 ([Cmpd. 1](#)), alcohol RL: BUU (Biological use, unclassified); RCT (Reactant); BIOL (Biological study); RACT (Reactant or reagent); USES (Uses) (lab. expt. in Slime prepn. using poly(vinyl alc.) bags)

thickener; prepn. of gel material with excellent  
[Reference 11](#)

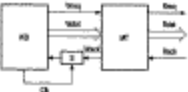
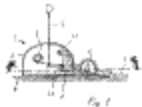
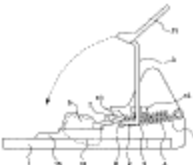
fiber; prepn. method of ABS material for magr

container sealer manuf. with, for bath prepn.  
[Reference 90](#)

photosensitive films contg. dye and photoacid progenitor compd. and, giving phototranschromic effects  
[Reference 91](#)

**Update**

**Has anything interesting happened to this family?  
Or, can I use this same family if it has changed?**

Title	Common Family	Row Status	Patent Family			Patent Assignee	Inventor(s)	Abstract	Image
			Patent	Kind	Date				
Pipeline synchronisation device	WO 2004066142	Updated	WO 2004066142	A2	2004-08-05	KESSELS JOZEF L W KIM SUK J KONINKL PHILIPS ELECTRONICS NV PEETERS ADRIANUS M G KONINK PHILIPS ELECTRONICS	PEETERS ADRIANUS M G KIM SUK J KESSELS JOZEF LAURENTIUS W KESSELS JOZEF L W PEETERS ADRI KESSELS JOZEF L W	Source: US2006076988AA Pipeline synchronisation device for transferring data between clocked devices having different clock frequencies. The Pipeline synchronisation device comprises a mousetrap buffer for exchanging data with one of said external devices said mousetrap buffer having a signalling output for coordinating the data exchange with the external device. [CONT.]	
			WO 2004066142	A3	2006-03-09				
			EP 1609057	A2	2005-12-28				
			US 2006076988	A	2006-04-13				
			CN 1836206	A	2006-09-20				
			JP 2006522378	T2	2006-09-28				
TRAP; PIEGE	SE 200200229	Updated	SE 200200229	L	2003-07-29	DANIELSSON PER GUSTAFSSON GORAN VANGUS AB	DANIELSSON PER GUSTAFSSON GORAN GUSTAFSSON GOERAN	Source: WO03063588A1 Mousetrap comprising a table for enclosing a bite, and a spring loaded clamp (7) with a beam intended to hit the mouse at activation of a triggering mechanism for the clamp (6, 69). A cover (5) is arranged above the bite and is pivotable around a shaft pin (52). [CONT.]	
			SE 200200229	A	2003-07-29				
			SE 525641	C2	2005-03-29				
			WO 03063588	A1	2003-08-07				
			WO 03063588	C2	2004-04-22				
Trap for catching and killing of small animals	SE 9502253	Updated	SE 9502253	L	1996-12-22	HANSSON GOERAN GORAN HANSSON GOERAN HANSSON GOERAN HANSON HANSSON GORAN HANSON GOERAN	HANSSON GORAN HANSSON GOERAN HANSON GOERAN GORAN HANSSON GOERAN HANSSON GOERAN HANSON	Source: US5960583A PCT No. PCT/SE96/00771 Sec. 371 Date Dec. 19 1997 Sec. 102(e) Date Dec. 19 1997 PCT Filed Jun. 12 1996 PCT Pub. No. WO97/00607 PCT Pub. Date Jan. 9 1997A trap for trapping and killing small animals such as rats and mice is described. The trap comprises a stand a pivoting clamp journalled in the stand around a first axis. [CONT.]	
			SE 9502253	A	1996-12-22				
			SE 509702	C2	1999-03-01				
			WO 9700607	A1	1997-01-09				
			CA 2224972	AA	1997-01-09				
			CA 2224972	C	2004-08-03				
			AU 6246696	A1	1997-01-22				
			AU 701089	B2	1999-01-21				
			PL 324183	A1	1998-05-11				
			PL 181767	B1	2001-09-28				
			CN 1188392	A	1998-07-22				
			CN 1089547	C	2002-08-28				
			EA 174	B1	1998-10-29				
			NZ 311202	A	1999-01-28				
			BR PI9608604	A	1999-03-02				
			JP 11508133	T2	1999-07-21				
			JP 3778570	B2	2006-05-24				
			US 5960583	A	1999-10-05				
			EP 1011326	A1	2000-06-28				
			EP 1011326	B1	2001-10-17				
HK 1015221	A1	2003-04-11							

# New Publications (version 5.2.3, 2019)

## PatBase: Updated Mousetraps

	Title	Row Status	Patent Family			New Publications
			Patent	Kind	Date	
1	Mousetrap	Updated	US 2006185223 US 7231738 AU 2005200789	A B AA	2006-08-24 2007-06-19 2006-09-07	US 7231738 B
2	Source: CN1762213A The invention provides a mouse trap without bait comprising: main ...	Unchanged	CN 1762213	A	2006-04-26	

# Use Case: Orbit + PatBase

	Title	Database	Row Status	Patent Family			New Publications
				Patent	Kind	Date	
5 .1	Fermented fruit solutions for cleaning compositions ✓	FAMPAT	Unchanged ✓	WO 201540442	A1	2015-03-26	
				WO 201540506	A1	2015-03-26	
				WO 201540444	A1	2015-03-26	
5 .2	SOFTENING COMPOSITIONS INCLUDING FERMENTED FRUIT SOLUTIONS AND METHODS FOR MAKING AND USING THE SAME	PatBase	Added	WO 15040506	A1	2015-03-26 ✓	WO 2015040506 A1 #
				WO 15040445	A1	2015-03-26	WO 2015040445 A1
				WO 15040444	A1	2015-03-26	WO 2015040444 A1
				WO 15040442	A1	2015-03-26	WO 2015040442 A1

- PatBase record shows four “new” publications
- Original Orbit record had three of these

# Use Case: Orbit + PatBase

5.	Fermented fruit solutions for cleaning compositions	WO 201540442	5.1 FAMPAT   <a href="#">link</a>	Updated	WO 201540442 A1	2015-03-26	WO 2015040445 A1
			5.2 Patbase   <a href="#">link</a>		WO 201540506 A1	2015-03-26	
					WO 201540444 A1	2015-03-26	

- Only the '445 application, which was only present in the new PatBase record, is listed as a New Publication



## Reference Rows

**How do I keep  
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# Reference Rows (version 1.0, 2011)

# Select preferred content from each database...

	Title	Database	Patent Family			Probable Assignee	FTO Family with Expiry						Sequence Locations				
			Patent	Kind	Date		Pub No.	Kind	Pub Date	State	Status	Est Expiry	Seq. ID #	% Identity	Length	Location	
1 .1	COMPOSITIONS AND METHODS FOR TARGETED GENE DISRUPTION IN PROKARYOTES	PatBase	WO 2015070193 US 2015132263 US 2015353901	A1 A A	2015-05-14 2015-05-14 2015-12-10	RADIANT GENOMICS INC ✓											
1 .2	Compositions and methods for targeted gene disruption in prokaryotes	FAMPAT	WO 201570193 US 20150132263 US 20150353901	A1 A1 A1	2015-05-14 2015-05-14 2015-12-10	ZYMERGEN	WO 201570193 US 20150132263 US 20150353901	A1 A1 A1	2015-05-14 2015-05-14 2015-12-10	DEAD DEAD DEAD	LAPSED LAPSED LAPSED	2017-05-11 2016-10-11 2016-10-03					
1 .3	Compositions and Methods for Targeted Gene Disruption in Prokaryotes	GQPAT Gold+ Proteins	US20150353901 US20150132263 WO2015070193		20151210								US20150353901-0002	100.00	1368	claim: 19; 20	##
1 .4	COMPOSITIONS AND METHODS FOR TARGETED GENE DISRUPTION IN PROKARYOTES	GQPAT Gold+ Proteins	US20150132263 US20150353901 WO2015070193		20150514								US20150132263-0002	100.00	1368	claim: 19; 20	##
1 .5	New bacteriophage comprises polynucleotide expressing RNA-directed DNA-binding polypeptide comprising nuclease module, and targeting module comprising guide RNA, for restricting growth of host cell, and for preparing antiseptic composition ✓	Derwent Innovation + DWPI	US 20150353901	A1	2015-12-10												
1 .6	New bacteriophage comprising polynucleotide that expresses RNA-directed DNA-binding polypeptide and targeting module comprising guide RNA, used e.g. for treating autoimmune and inflammatory disease, and disease caused by bacterial infection	Derwent Innovation + DWPI	US 20150132263 WO 2015070193	A1 A1	2015-05-14 2015-05-14												

Using the Reference Rows utility, data for set of related records is selected based on user-defined database rankings and rules.

# “Stitch” selected data into a single integrated row...

Title	Database	Patent Family			Probable Assignee	FTO Family with Expiry					Sequence Locations							
		Patent	Kind	Date		Pub No.	Kind	Pub Date	State	Status	Est Expiry	Seq. ID #	% Identity	Length	Location			
1. New bacteriophage comprises polynucleotide expressing RNA-directed DNA-binding polypeptide comprising nuclease module, and targeting module comprising guide RNA, for restricting growth of host cell, and for preparing antiseptic composition	1.1 Patbase   link	WO 2015070193	A1	2015-05-14	RADIANT	WO 2015070193	A1	2015-05-14	DEAD	LAPSED	2017-05-11	US20150353901-0002	100.00	1368	claim: 19; 20	1.3		
	1.2 FAMPAT   link	US 2015132263	A	2015-	WO 2015070193	A1	2015-05-14	RADIANT GENOMICS	✓	2016-10-11		US20150132263-0002	100.00	1368	claim: 19; 20	1.4		
	1.3 GPATPRT   link	US 2015353901	A	2015-	US 2015132263	A	2015-05-14	INC		2016-10-03								
	1.4 GPATPRT   link				US 2015353901	A	2015-12-10											
	1.5 Innov   link											WO 2015070193	A1	2015-05-14	DEAD	LAPSED	2017-05-11	✓
	1.6 Innov   link											US 20150132263	A1	2015-05-14	DEAD	LAPSED	2016-10-11	
											US 20150353901	A1	2015-12-10	DEAD	LAPSED	2016-10-03		
	1.5 Innov			1.1 Patbase	1.1 Patbase													
2. Modulating expression of a target nucleic acid comprises providing to the cell a guide RNA including a <b>New bacteriophage comprises polynucleotide expressing RNA-directed DNA-binding polypeptide comprising nuclease module, and targeting module comprising guide RNA, for restricting growth of host cell, and for preparing antiseptic composition</b>	2.1 Patbase   link	US 9267135	B2	2016-02-23	PRESIDENT AND FELLOWS OF HARVARD COLLEGE	US 9267135	B2	2016-02-23	ALIVE	GRANTED	2034-06-04	US20160237456-0001	100.00	1368	probable disclosure (not found by automated parsing)	2.3		
	2.2 FAMPAT   link	US 20140356959	A1	2014-12-04		US 20140356959	A1	2014-12-04				US20140356959-0001	100.00	1368	probable disclosure (not found by automated parsing)	2.4		
	2.3 GPATPRT   link	US 10640789	B2	2020-05-05		US 10640789	B2	2020-05-05	ALIVE	GRANTED	2034-06-04							
	2.4 GPATPRT   link	US 20160237456	A1	2016-08-18		US 20160237456	A1	2016-08-18				US20160237456-0001	100.00	1368	probable disclosure (not found by automated parsing)	2.5		
						US 10767194	B2	2020-09-08	ALIVE	GRANTED	2034-06-04							
						US 2020024618	A1	2020-01-23				US9267135-0001	100.00	1368	probable disclosure (not found by automated parsing)	2.6		
						20140356956	A1	2014-12-04	ALIVE	PENDING	2034-06-04							
						20200299732	A1	2020-09-24	ALIVE	PENDING	2034-06-04							
												US20140356956-0001	100.00	1368	probable disclosure (not found by automated parsing)	2.7		
												US2020024618-0001	100.00	1368	probable disclosure (not found by automated parsing)	2.8		
	2.8 Innov			2.2 FAMPAT	2.1 Patbase													
3. Altering a target nucleic acid in a cell by introducing into the cell a first foreign nucleic acid encoding guide RNA sequences complementary to DNA, and introducing into the cell a second foreign nucleic acid encoding a Cas9 protein	3.1 Patbase   link	US 2015140664	A	2015-05-21	PRESIDENT AND FELLOWS OF HARVARD COLLEGE	EP 3071698	B1	2019-09-04				AU2014353100-0001	100.00	1368	probable disclosure (not found by automated parsing)	3.3		
	3.2 FAMPAT   link	US 10787684	B	2020-09-29		EP 3071698	A2	2016-09-28	ALIVE	GRANTED	2034-11-19							
	3.3 GPATPRT   link	WO 2015077290	A2	2015-05-28		EP 3071698	A4	2017-06-28				JP2016537982-0001	100.00	1368	probable disclosure (not found by automated parsing)	3.4		
	3.4 GPATPRT   link	WO 2015077290	A3	2015-08-06		EP 3604543	A1	2020-02-05	ALIVE	PENDING	2034-11-19							
	3.5 GPATPRT   link	CA 2930828	AA	2016-05-16		WO 201577290	A2	2015-05-28	DEAD	LAPSED	2017-05-19							
	3.6 GPATPRT   link	AU 2014353100	AA	2016-06-02		WO 201577290	A3	2015-08-06				CA2930828-0001	100.00	1368	probable disclosure (not found by automated parsing)	3.5		
	3.7 GPATPRT   link	KR 20160078502	A	2016-07-04		US 10787684	B2	2020-09-29	ALIVE	GRANTED	2034-06-30							
	3.8 GPATPRT   link	EP 3071698	A2	2016-09-28		US 20150140664	A1	2015-05-21				EP3071698-0001	100.00	1368	probable disclosure (not found by automated parsing)	3.6		
	3.9 GPATPRT   link	EP 3071698	A4	2017-06-28		JP 2016537982	A	2016-12-08	ALIVE	PENDING	2034-11-19							
	3.10 GPATPRT   link	EP 3071698	B1	2019-09-04		JP 2020062033	A	2020-04-23	ALIVE	PENDING	2034-11-19							
	3.11 Innov   link	EP 3604543	A1	2020-02-05		DK 3071698T	T3	2019-11-18	ALIVE	GRANTED	2034-11-19							
						ES 2754498	T3	2020-04-17	ALIVE	GRANTED	2034-11-19							
						CA 2930828	A1	2015-05-28	ALIVE	PENDING	2034-11-19							
						AU 2014353100	A1	2016-06-02	ALIVE	PENDING	2034-11-19							
					KR 20160078502	A	2016-07-04	ALIVE	PENDING	2034-11-19								
											KR1020160078502-0001	100.00	1368	probable disclosure (not found by automated parsing)	3.9			
											WO2015077290-0001	100.00	1368	probable disclosure (not found by automated parsing)	3.10			
	3.11 Innov			3.1 Patbase	3.1 Patbase													

US20150353901-0002	100.00	1368	claim: 19; 20	##
US20150132263-0002	100.00	1368	claim: 19; 20	##

...for each family in your final report.



**Color-coding**

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before?**

# Color-Coding (version 5.5, 2021)

Title	Patent Family			Inventor(s)	Patent Assignee	Priority		C Search	D Search
	Patent	Kind	Date			Application	Date		
Pharmaceutical composition containing donepezil hydrochloride as active ingredient	KR 2021061490	A	20210528	Kim, Sang Uk Lim, Hyeon Tae Choi, Jeong Ryeol Kim, Yeong Rae Song, Ho Jun Kim, Jeong Tae Nam, Gyeong Tae Kim, Do Hyeon	Corepharm Bio Co., Ltd., S. Korea	KR 2019-148464	20191119	A+B+C	A+B+D 1a CA A+B+D
Pharmaceutical active-containing film delivery device for oral transmucosal administration	US 20210030693 WO 2019165208	A1 A1	20210204 20190829	Vasisht, Niraj Kelly, Karl D.	Avior, Inc., USA	WO 2019-US19150 US 2019-62890346 US 2018-62633907	20190222 20190822 20180222	A+B+C	2a CA A+B+D
Title	Patent Assignee	Inventor(s)	Priority Information		Priority Date	D Search			
			Application	Date					
Pharmaceutical composition containing donepezil hydrochloride as active ingredient	Corepharm Bio Co., Ltd., S. Korea	Kim, Sang Uk Lim, Hyeon Tae Choi, Jeong Ryeol Kim, Yeong Rae Song, Ho Jun Kim, Jeong Tae Nam, Gyeong Tae Kim, Do Hyeon	KR 2019-148464	20191119	2019-11-19	A+B+D			
Modified release formulation donepezil						+D			
Stabilized formulation	Whanin Pharmaceutical Co., Ltd., S. Korea	Kim, Byung Hyuck Jung, Chan Eun Hong, Yong Soon Shin, Ho Chul Choi, Dong Hoon Kim, Seo Yeon Cha, Se Rom Ryu, Min Ji	KR 2019-142635	20191108	2019-11-08	A+B+D			
Pharmaceutical composition comprising and hydroxy						+D			
Sustained-release, small-sized orally administered preparation containing choline alfoscerate	Korea United Pharm. Inc., S. Korea	Kim, Seong yeop Song, Hui yong Kim, Byeong jin Choi, Yeon ugg	KR 2019-131785	20191022	2019-10-22	A+B+D			

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