hanging bacon is provided by this invention, one which will hold the meat without mutilation and permit it to be sliced uniformly. It is preferably made of steel wire in two sections, one section having a loop, one side of which is free, and forms a pin capable of engaging with the meat, while the second section is capable of being joined to the first section to hold the meat between the

SHIRT.—Bennett Berenstein, New York City. A sleeve piece, according to this invention, extends beyond the armholes and forms the sleeves, extending also over the shoulder and down the back and front, being stitched adjacent to the armholes and at its lower front and rear edges, the central portion forming a bosom and reinforce for the back and shoulders of

WHISTLE DRUM.—Orville R. Noble, Granville, Mass. On the inside of the shell of a drum, according to this invention, a small casing is secured by an eyelet, thus forming an air passage to the inside of the casing, on an annular shoulder in which is secured a whistle. The whistle is so supported as not to be damaged or injured by a child, and the beating of the drum causes a whistling sound to be produced.

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SCIENTIFIC AMERICAN BUILDING EDITION

JULY, 1897.-(No. 141.)

TABLE OF CONTENTS.

- No. 1. Perspective elevation, in colors, and floor plans of a Colonial residence at Overbrook, Pa. A unique design. Mr. Thomas P. Lonsdale, architect, Philadelphia, Pa.
- No. 2. Colorial house at Richmond Hill, N. Y., recently erected at a cost of \$4,200. Perspective view and floor plans. An attractive and pleasing design. Architects, Messrs. Haugaard Brothers, Richmond Hill, N. Y.
- No. 8. A residence, in the Colonial style, recently erected at Larchmont, N. Y., for Mr. William Murray, at a cost of \$7,700 complete. Two perspective elevations and floor plans. A pleasing design, with excellent interior arrangement. Mr. Frank A. Moore, architect, New York City.
- No. 4. A cottage at Prohibition Park, Staten Island, recently erected for Mr. August Mayer at a cost of .\$2,250 complete. A very attractive design for a modern cottage of small dimensions. Perspective elevation and floor plans. Mr. John Winans, architect, Prohibition Park, Staten Island.
- No. 5. "Wyandauk," the country residence of Lieut. Morton at Southampton, Long Island. A most excellent design in the Colonial style. Two perspective elevations and floor plans. Mr. James B. Lord, architect, New York City.
- No. 6. A modern dwelling at Binghamton, N. Y., re cently erected for Mr. William Mannis at a cost of \$3,000 complete. A good example of a suburban house. Two perspective elevations and floor plans. Messrs. T. Q. Lacey & Son, Binghamton, N. Y., architects.
- No. 7. A Colonial residence at Ardmore, Pa., recently erected for Dr. Louis O. Lusson. Perspective elevation and floor plans. Mesers. Boyd & Boyd, architects, Philadelphia, Pa.
- No. 8. A Colonial residence at Bensonhurst, Long Island, recently erected for Mr. Thomas A. Ritson. Two perspective elevations and floor plans A handsome design. Architects, Messrs. Parfitt Brothers, Brooklyn, N.Y. No. 9. A residence at West Chester, Pa., recently erected
- for Dr. S. Hagerty. Perspective elevation and floor plans. A design with many excellent features. Mr. Edward S. Paxson, architect, Philadelphia. No. 10. A residence at Attleboro, Mass., erected for E.
- P. Clafin, Esq., at a cost of \$5,500 complete. Anartistic and pleasing design. Messrs. George F. Barber & Company, architects, Knoxville Tenn. No. 11. Perspective and interior view of the Walhalla of Ratisbon on the Danube. A costly reproduc-
- tion of the Parthenon at Athens. This temple was erected at a cost of about \$6,000,000, and is devoted entirely to the display of busts of distinguished Germans.
- No. 12. Design for a "cozy corner."
- No. 18. View of the library of Mr. Henry L. Hotchkiss, New Haven, Conn.
- No. 14. Miscellaneous Contents: Fatalities to workmen -Scaffolding.-Lime water in freezing weather. -How to make a cheap greenhouse.-Making floors warm.-Inexpensive country homes. Improved sash lock, illustrated.—An improved door hanger, illustrated .- A novel wood working machine, illustrated. - Gray bricks. -Dixon's silica graphite paint.-A convenient gage for carpenters and builders, illustrated.

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(7172) W. J. C. asks: Will you kindly inform writer how to plate a round globe outside the same as a looking glass? Have failed to find any receipt. A. You will have to coat your globe with silver on the inside. If you coat it on the outside, it will have a matte surface. The following are directions for silvering glass globes :

Nitrate of silver	1	0 Z.
Distilled water	8	**
Alcohol	8	**
Ammonia sufficient, or about	1	44
Grape sugar	2	66

Dissolve the nitrate of silver in the water, add amnonia in a quantity just sufficient to redissolve the precipitate formed at first, add the alcohol, allow it to rest four or five hours and filter. The grape sugar is dis solved separately in 1 ounce of water, and added to the silver solution at the moment of using. The glass globes being perfectly cleaned, the solution is poured into them, and the globes are turned on all sides in front of a moderate fire, so that the liquid touches every part alike The coating is done in a few minutes, when the excess of liquid is to be removed and the globe washed with distilled water first, and lastly with alcohol. The success of the operation depends in a great degree on the cleanness of the surface of the glass to be silvered; the slight est speck of dust or grease spot is sure to show. A good way to clean the globes would be to wash them with a warm solution of soda, then with dilute nitric acid, and lastly with alcohol, care being taken not touch with the fingers any part of the globes which is intended to be sil-

(7173) A. H. G. says: Will you kindly give me the recipe for making the composition that takes fire by merely putting a drop of water on it? What I have reference to is an article sold on the streets, that looks like strips of cardboard, and ali you have to do is to tear a piece off and wet it to obtain a light. Can it be made in a form that can be painted on, or cardboard or paper dipped into it? A. The substance you refer to is undoubtedly metallic sodium which is cut in thin strips. It flames violently on coming in contact with We do not consider its use safe. It could probably be used only in strips or chips.

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INDEX OF INVENTIONS

For which Letters Patent of the United States were Granted

	JUNE 29, 1897,	D
I	AND EACH BEARING THAT DATE.	DDDDDEEE
I	[See note at end of list about copies of these patents.]	EEE
I	Acid, apparatus for making sulfurous, E. Porak. 585,401 Air purifying apparatus, A. H. Greiwe. 585,588 Alarm. See Bicycle alarm. Time alarm. Animal trap, H. Utter. 585,489 Artist's folding frame, F. Schweiger. 585,588 Atomizer air forcing device, F. J. Mitchell. 585,220 Auditory instrument attachment, J. H. Kellogg. 585,222 Auger earth. J. P. Swofford.	E
I	Alarm. See Bioycle alarm. Time alarm. Animal trap, H. Utter	E
١	Atomizer air forcing device, F. J. Mitchell	E
ı	Bales, method of and j cket for covering cylin- drical cotton. M. Swenson	E
	Bath. See Spray bath. Batteries, apparatus for applying heat to thermo,	E
ı	Barber's chair, E. Berninghaus 585,502 Bath. See Spray bath. 585,529 Batteries, apparatus for applying heat to thermo, H. C. Reagan, Jr. 585,229 Battery. See Secondary battery. 585,574 Bearing, ball, J. E. Higgm. 585,574 Bearing, end or thrust, W. L. Eveland. 585,516 Bearing, roller, H. H. Ellis. 585,531 Bearing, vehicle wheel, C. E. Roberts 585,339 Bed pan, T. Eisfeld 585,349 Bed, sofs, C. F. Streit 585,349 Bed, sofs, C. F. Streit 585,399 Bell, bloycle, L. A. Sanford 585,452, 585, 463 Bench. See Laundry bench. Bicycle, etc., C. L. Trayls. 585, 351 Bicycle, etc., C. L. Trayls. 585, 529 Bicycle attanh, F. Madden 585, 529 Bicycle attanhent, D. R. Saunders 585, 529 Bicycle bearing dust guard and cleaner, H. H. 585, 529	E
	Bearing, roller, H. H. Ellis	E
İ	Bed nottom frame connection, B. F. Stauber	F
	Bedstead, L. Palmer. 585,339 Bell, bicycle, L. A. Sanford. 585,482, 585,483 Bench. See Laundry bench.	F
	Bicycle, etc., L. Beyer, Jr. 585,177 Bicycle, etc., C. L. Travis 585,351 Bicycle alarm, F. Madden 585,531	F
	Bicycle attachment, D. R. Saunders. 585,288 Bicycle bearing dust guard and cleaner, H. H. Pulver. 585,532	F
	Bicycle brake, Humphrey & Murdock 585,328	.
	Playela frame branch connection I U Pennett 585 176	F
	Dicycle of similar vehicle, F. P. Demis ava.421	
	Bicycle saddle, J. Hartman. 585,571 Bicycle stool and pouch, combined, G. A. Shaw. 585,485	F
	Bicycle support, L. Bowles 585,616 Bicycle support, M. J. Guthrie 585,338	F
	Bicycle rest, Nielson & Beguelin. 585,235 Bicycle saddle, J. Hartman. 585,571 Bicycle stool and pouch, combined, G. A. Shaw 585,485 Bicycle support, Ir. G. Bailey. 585,548 Bicycle support, L. Bowles. 585,648 Bicycle support, M. J. Guthrie. 585,583 Bicycle support for beginners, A. H. Pallen. 585,508 Bicycle support for beginners, A. H. Pallen. 585,508 Bicycle wheel, D. R. C. Devine. 585,255 Bicycle wheel, D. R. C. Devine. 585,255 Bicycles, etc., lantern or other carrier for, F. K. Billiard appliance for placing or removing pins	F
	Bicycles, etc., lantern or other carrier for, F. K. Hesse.	F
	used on billiard tables, G. Schulz. 585,537 Binder, clip, A. M. Bogle. 585,423 Bird trap, live, R. S. Elliott. 585,263	F
	Bit brace, S. McClellan 585,537 Blast furnace, R. H. Terhune 585,247 Blind, Window, E. S. Lathrop 585,273 Block. See Snap block 586,273	
	Bobbin, separable, J. W. Foster 585,199	١١Ğ
	Water tube safety boiler. Bolt, A. W. Lyda	G
	Book file report, H. D. Sheppard. 585,468 Book holder, J. R. Gilman 585,566	GG
	Boiler. See Steam Boiler. Water tube Boiler.	C
	Bottle, B. Thibedeau	G
	Bottle, Jug, or Jar, O. R. Van Vechten	G
	Boring device C. W. H. Blood. 585,332	G
	Box. See Letter box. Match box. Musical box. Paper box. Shoe box. Brace. See Bit brace. Brace bit regulating or adjusting device, G. W.	E
	1 W 6188 280.420	H
	Bracket. See Lamp bracket. L ntern bracket. Sheet metal bracket. Shelf bracket. Brake. See Bicycle brake. Car brake. Sled brake. Vehicle brake. Braing apparatus, J. C. Dupee	HH
	Brazing apparatus, J. C. Dupee	H
	Broiler, electric, G. B. Fraley. 585,306 Broiler, gas, F. A. Langwith. 585,631 Brush tooth F. D. Gould 585,585	H
	Buggy top connection, R. C. Bartlett. 585,550 Burglar alarm system, W. T. Arnold. 585,171	I
	Butter mould, D. E. Ballam	HHHH
	Calculating apparatus, W. H. Foss. 585,385 Calipers, G. R. Clarke 585,184	E
	Can. See Oil can. Can filling machine, R. P. Scott	B I
	Canceling machine, stamp, S. Crane	
	Car coupling, D. D. Martin.	3 I
!	Can. See Oil can. Can filling machine, R. P. Scott. Can filling machine, R. P. Scott. Can filling machine, stamp, S. Crane. See Cancer, device for securing, W. MacNeece. See, See Cancer, See, See, See, See, See, See, See, S	J
	Car, underframe, F. H. Rapley	i k
	Card punching machine, J. Shaw	
	Cash register, F. L. Fuller. 585,565 Cash register, indicator and recorder, combined, Baumann & Wurmb. 585,246	5 1 8 I
	Ing chair. Chair, H. W. Bolens. Chair, J. Gilson. Chair, J. Gilson. S83.43 Checkrein stop, C. W. Pomroy. S83.44 Cigar cutter and lighter, E. A. Johnston. S85.31 Cigar cutting and lighting mechanism, E. A.	I
	of the state of th	I
	Zelse Selse	
	Clock, electric Baumann & Wurmb	֓֟֟֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֡֓֡֓֓֡֓֓֡֓
l	Cloth cutter, A. C. Soblander	1 I 9 I 8 I
	Clamp. See Saddle clamp. 585,346 Cleaning device, H. C. Stewart. 585,346 Clock, electric, Baumann & Wurmb 585,286 Clock, electric, Baumann & Wurmb 585,301 Closte Leetric tower, Wurmb & Baumann 585,301 Closte See Sanitary closet. 585,201 Cloth cutting machine, P. C. Morse 585,201 Cloth cutting machine, P. C. Morse 585,222 Clutch, friction, J. E. Hunter 585,222 Clutch, friction, J. E. Hunter 585,221 Cock float, ball, F. C. Rockwell 585,448 Coffee, process of and machine for husking, T. F. 585,418 Dover 585,511	
	Doyer. 585,51! Coin assorting and ejecting apparatus, combination lock, N. Shannon. 585,63. Combination lock, N. Shannon. 585,63. Combination lock, N. Shannon. 585,63.	5 I
	Combination lock, N. Shannon 585,536 Condensing system, W. P. Skiffington 585,366	5 1

	_
Conductor or ground wire attachment, earth, H. M. Crane. On fection, I. Allegretti. Copy note: Automatic, F. J. Benscoter. Copy note: Automatic, F. J. Benscoter. Copy note: Automatic, F. J. Benscoter. Cotton describates and cleaner, A. B. Carter. Cotton press, S. Z. Hall. Coupling. See Car coupling. Thill coupling. Cranberry picker, J. S. Washburn. Crane, over head tracelling. W. H. Morgan. Crate, earry ing, C. B. Hillyard. Crate, folding egg, C. Hath. Crate, folding egg, C. Hath. Crushing machine, M. G. Bunnell. Crushing machine, M. J. Bichhorn. Crushing machine, Eichhorn & Bunnell. Culimary stock and masking same, J. McFadyen. Culivator, Cd. Gross and Coupling of furnacy of the Coupling	585.185
Confection, I. Allegretti. Copy holder, automatic, F. J. Benscoter	585,372 585,501 585,367
Cotton distributer and cleaner, A. B. Carter	585,4 <i>3</i> U
Coupling. See Car coupling. Thill coupling.	585,300
Crane, overhead traveling, W. H. Morgan	585,45.5 585,277
Crate, folding egg, C. Rath.	585,575 585,534
Crushing machine, M. J. Eichhorn.	585,182 585,190 585,191
Culinary stock and making same, J. McFadyen	585,333
Citivator riding attachment, E. C. Willeford	585,547 585,275 585,275
Curtain stretcher, folding, S. E. Reeder	585,593
cutter. Stalk cutter. Cut terhead. S. J. Shimer (reissue)11.616.	11,617
	585 448
Cyclometer, W. W. Hastings Dental engine mallet, C. E. Williams	585,213 585,519 585,494
	585,284
Detector. See Ground detector. Direct acting engine, W. D. Hooker	585,630
Disinfecting apparatus, A. G. Hunter	585,410 585,627 585,536
Display rack G M Jordan	585 360
Display stand, Leech & Crowl. Dissolving key for oxyhdrogen lights, E. Unger Door hanger, V. M. Moore. Dough raising cabinet and drier, D. M. Merry- man.	585,215 585,238 585,276
Dough raising cabinet and drier, D. M. Merry-	
Dries See Clothes dries	585,219 585,608
Drying apparatus, cylinder, T.S. Crane	585,378 585,384 585,307
Electric accumulator system, H. B. Cox	585,620 585,620
Electric contact device, S. H. Stahl. Electric heater, G. B. Fraley. Electric heater, Fraley & Paulson. Electric heater, alternating current, G. B. Fraley.	585,620 585,293 585,309 585,311
Electric neater, alternating current, G. B. Fra-	FOF 010
Electric machine, dynamo, G. E. Dorman Electric meter, F. P. Cox Electric meter, properties F. P. Cox	585,379 585,257 585,258
Electric meter F. F. Cox	585,258 585,527
Electric metering apparatus, F. P. Cox. Electric motor, C. Lindberg. Electric motor circuit controller, H. H. Cutler. 585,511,	585,512
Electric wire circuit breaker. A. J. Clark	303,307
Engine. See Direct acting engine. Explosive	085,722
Loco motive engine. Rotary engine, Engraying machina Enton & Coodnow	585 901
Envelope, J. M. Plimpton.	585,261 585,478 585,434
Fan and electrolier, combined electric, E. H.	585,619
Bennett, Jr	
M. R. Davis Farm gate, W. E. Newton	585,188 585,224
rats, renning and Dieaching animal, E. Meissl (reissue)	11.615
Fans, screen attachment for suction or exhaust, M. R. Dayis. Farm gate, W. E. Newton. Fats, refning and bleaching animal. E. Meissl (reissue). Faucet. F. Guttenberg. Fence tightener, wire, A. Carpenter. Fence machine, hand, W. W. Barker. Fence tension device, wire, Stowell & Terry. Fence wire support, H. N. Sheek. Fences, tool for applying brace wires in wire, E.	585,827 585,618 585,420
Fence tension device, wire, Stowell & Terry Fence wire support, H. N. Sheek	585,618 585,420 585,241 585,345
Fences, tool for applying brace wires in wire, E. Redmond	585,535
Fifth wheel, vehicle, W. F. Kramer File, bill, W. F. Ordway	585,581 585,397 585,281
Redmond Fifth wheel, vehicle, W. F. Kramer. File, bill, W. F. Ordway. Filter and purifier, combined, T. D. McClary. Filter, water, A. Aufrichtig Fishing line snood and cork holder, A. A. Free-	585,497
man	585,564 585,319
Flux distributing machine, E. Wildi	585,493 585,400 585,207
Fork. See Pitchfork.	585,207
Frame. See Artist's folding frame. Quilting frame. Freight transferring apparatus, McCabe & Ander-	
son	585,221
nace.	585,572
Furnace charging apparatus, blast, Rotthoff & Hamfeldt	
	585,596
Furnace draught apparatus, R. Gosling	585,644
Furnace draught apparatus, R. Gosling	585,644
Furnace draught apparatus, R. Gosling	585,644
Furnace draught apparatus, R. Gosling	585,644
Furnace draught apparatus, R. Gosling	585,644
Furnace draught apparatus. R. Goeling. Furnace for heating ingots, billets, blooms, etc., F. H. Daniels. Furnace grate, J. A. Busam. Furnace lock bearer, P. Maddocks. Game apparatus, F. M. Archer. Game apparatus, W. R. Harrison. Game counter, F. E. Zerrahn. Gas engine, L. S. Brown. Gas engine, H. B. Steele. Gas generator, acetylene, J. F. Dougherty	585,622 585,622 585,428 585,361 585,170 585,312 585,302 585,604 585,601 585,625
Furnace draught apparatus. R. Goeling. Furnace for heating ingots. billets, blooms, etc., F. H. Daniels. Furnace grate, J. A. Busam	585,622 585,622 585,428 585,361 585,170 585,312 585,302 585,601 585,601 585,625
Furnace draught apparatus. R. Goeling. Furnace for heating ingots, billets, blooms, etc., F. H. Daniels. Furnace grate, J. A. Busam. Furnace lock bearer, P. Maddocks. Game apparatus, F. M. Archer. Game apparatus, W. R. Harrison. Game counter, F. E. Zerrahn. Gas engine, L. S. Brown. Gas engine, H. B. Steele. Gas generator, acetylene, J. F. Dougherty. Gate. See Karm gate. Tilting gate. Gate, W. H. Palmer. Gate, B. P. Stedman. Gearing for coupling shafts, friction, F. Singre Generator. See Lamp gas generator. Steel	585,622 585,622 585,428 585,361 585,170 585,312 585,302 585,604 585,601 585,625
Furnace draught apparatus. R. Goeling. Furnace for heating ingots, billets, blooms, etc., F. H. Daniels. Furnace grate, J. A. Busam. Furnace lock bearer. P. Maddocks. Game apparatus, F. M. Archer. Game apparatus, W. R. Harrison. Gase engine, L. S. Brown. Gas engine, H. B. Steele. Gas generator, acetylene, J. F. Dougherty. Gate. See Farm gate. Tilting gate. Gate, W. H. Palmer. Gate, W. H. Palmer. Gate, B. P. Stedman. Gearing for coupling shafts, friction, F. Singre Generator. See Jamp gas generator. Steam generator. Glass vessels, machine for making, R. & R. Good, Jr. Globe or shade holding device. T. Walsh.	585,644 585,622 585,428 585,361 585,702 585,302 585,601 585,601 585,625 585,400 585,240 585,539 585,469
Furnace draught apparatus. R. Goeling. Furnace for heating ingots, billets, blooms, etc., F. H. Daniels. Furnace grate, J. A. Busam. Furnace lock bearer, P. Maddocks. Game apparatus, F. M. Archer. Game counter, F. E. Zerrahn. Gase engine, L. S. Brown. Gas engine, H. B. Steele. Gas generator, acetylene, J. F. Dougherty Gate. See Farm gate. Tilting gate. Gate, W. H. almer Gate, B. F. Stedman. Gearing for coupling shafts, friction, F. Singre Generator. See Lamp gas generator. Steam generator. Glass vessels, machine for making, R. & R. Good, Jr Globe or shade holding device, T. Walsh. Glucose or sugar from starch, manufacture of,	585,644 585,622 585,428 585,301 585,312 585,302 585,605 585,605 585,605 585,539 585,400 585,539 585,400 585,539 585,400 585,606
Furnace draught apparatus. R. Goeling. Furnace for heating ingots, billets, blooms, etc., F. H. Daniels. Furnace grate, J. A. Busam. Furnace lock bearer, P. Maddocks. Game apparatus, F. M. Archer. Game counter, F. E. Zerrahn. Gase engine, L. S. Brown. Gas engine, H. B. Steele. Gas generator, acetylene, J. F. Dougherty Gate. See Farm gate. Tilting gate. Gate, W. H. almer Gate, B. F. Stedman. Gearing for coupling shafts, friction, F. Singre Generator. See Lamp gas generator. Steam generator. Glass vessels, machine for making, R. & R. Good, Jr Globe or shade holding device, T. Walsh. Glucose or sugar from starch, manufacture of,	585,644 585,622 585,425 585,317 585,117 585,312 585,504 585,605 585,605 585,605 585,606 585,539 585,400 585,606 585,806 585,806 585,806 585,806
Furnace draught apparatus. R. Goeling. Furnace for heating ingots, billets, blooms, etc., F. H. Daniels. Furnace grate, J. A. Busam. Furnace lock bearer, P. Maddocks. Game apparatus, F. M. Archer. Game apparatus, W. R. Harrison. Gase engine, L. S. Brown. Gas engine, H. B. Steele. Gas generator, acetylene, J. F. Dougherty. Gate. See Farm gate. Tilting gate. Gate, W. H. Palmer. Gate, B. P. Stedman. Gearing for coupling shafts, friction, F. Singre Generator. See Lamp gas generator. Steam generator. Glass vessels, machine for making, R. & R. Good, Jr. Glucose or sugar from starch, manufacture of, C. Pope. Gluing press, A. Dolge. Gold from ove, chloritation process of obtaining. J. Storer et al. Ground detector, E. W. Rice, Jr.	585,644 585,622 585,423 585,312 585,170 585,312 585,504 585,625 585,625 585,400 585,539 585,400 585,539 585,400 585,539 585,806 585,535 585,806 585,585 585,285
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Furnace draught apparatus. R. Goeling. Furnace for heating ingots, billets, blooms, etc., F. H. Daniels. Furnace grate, J. A. Busam Furnace lock bearer. P. Maddocks. Game apparatus. W. R. Harrison. Game apparatus. W. R. Harrison. Game apparatus. W. R. Harrison. Gasengine, L. B. Brown. Gas engine, L. B. Steele. Gas generator, acetylene, J. F. Dougherty. Gate. See Farm gate. Tilting gate. Gate. W. H. Palmer. Gate. B. P. Stedman. Gearing for coupling shafts, friction, F. Singre. Generator. See I.amp gas generator. Steam generator. Glasvessels, machine for making, R. & R. Good, Jr. Globe or shade holding device, T. Walsh. Glucose or sugar from starch, manufacture of, C. Pope. Gluing press, A. Dolge. Gold from ore, chlorination process of obtaining. J. J. Storer et al. Ground detector, E. W. Rice, Jr. Hackling machine, A. Marshall. Handle. See Detachable handle. Harness, safety trip for hanging, T. H. Waterhouse. Harvester, corton, McCarty & Ford. Hat pin guide, F. Eckel. Hat, ventilated, D. Cross. Heater. See Electric heater. Water heater. Hitching device, J. Muspratt. Hoisting apparatus, I. J. Shuman. Honeycomb foundation fastener and section press, combined, G. R. McCartney. Horse cleaner, D. S. Kennedy. Horseshoe, elastic tread, W. R. Howe. Horseshoe, padded, C. E. Sheldon. Knitting machine, J. F. Neson. Jar filling device, J. Foley et al. Hub securing device, A. C. Morris. Hygiene apparatus, N. A. Renstrom. Index, W. V. Le Seur. Indicator. See Cash indicator. Indicator. See Cash indicator. Indicator. See Cash indicator. Index, W. V. Le Seur. Indicator. See Cash indicator. Indicator. See Cash indicator. Knitting machine, C. Frence. Ladling apparatus, Reses & Armstrong. Lamp pelectric arc, C. J. Toerring, Jr. Lamp pelectric arc, P. H. Klein, Jr. Lamp, electric arc, E. Lavens. Lamp, electric arc, E. Lavens. Lamp, electric arc, C. J. Toerring, Jr. Lamp page per see the see the set of the set of the set of the set o	585, 644 585, 625 585, 531 585, 531 585, 532 585, 540 585, 533 585, 540 585
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Furnace draught apparatus. R. Goeling. Furnace for heating ingots, billets, blooms, etc., F. H. Daniels. Furnace grate, J. A. Busam Furnace lock bearer. P. Maddocks. Game apparatus. F. M. Archer. Game apparatus. W. R. Harrison. Game apparatus. W. R. Harrison. Gasengine, L. S. Brown. Gas engine, L. S. Brown. Gas engine, H. B. Steele. Gas generator, acetylene, J. F. Dougherty. Gate. See Farm gate. Tilting gate. Gate. B. P. Stedman. Gearing for coupling shafts, friction, F. Singre. Generator. See I.amp gas generator. Steam generator. Glasy essels, machine for making, R. & R. Good, Jr. Globe or shade holding device, T. Walsh. Glucose or sugar from starch, manufacture of, C. Pope. Gluing press, A. Dolge. Gold from ore, chlorination process of obtaining. J. J. Storer et al. Ground detector, E. W. Rice, Jr. Hackling machine, A. Marshall. Handle. See Detachable handle. Harness, safety trip for hanging, T. H. Water- house. Harvester, cotton, McCarty & Ford. Hat pin guide, F. Eckel. Hat, ventilated, D. Cross. Heater. See Electric heater. Water heater. Hoisting apparatus, I. J. Shuman. Honeycomb foundation fastener and section press, combined, G. R. McCartney. Horse cleaner, D. S. Kennedy. Horseshoe, Padded, G. E. Sheldon Horse blanket, J. H. Dalley. Horseshoe, Padded, C. E. Sheldon Horseshoe, Padded, C. E. Sheldon Horseshoe, Padded, C. E. Sheldon Horse horse, combined, G. R. McCartney. Horseshoe, Padded, C. E. Sheldon Horse properatus, N. A. Rensyrom Index. W. V. Le Seur. Indicator. See Cash indicator. Insulating joint, L. F. Van de Wiele. Iron, apparatus for manufacturing sheet, S. Burton Ton. Iron ores or iron compounds, manufacturing briquets of, G. W. Petersson. Jar filling device, fruit, Ashbaugh & Webster. Joint. See Insulating joint. Universal joint. Journal bearing, antifriction, D. E. Kempster. Knitting machine, C. France, Lading apparatus, Reese & Armstrong. Lamp pelectric arc, E. Lavens. Lamp, electric arc, E. Lavens.	585, 64283 11013 225 585 585 585 585 585 585 585 585 585
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