GRANARY .- Charles T. Moorman, Jr., Jamestown, O .- This invention has for its object to furnish an improved granary, which shall be so constructed that rats and other vermin cannot get into it, which shall be firm and solid, will not "creel" with weight, will protect the grain better and maybe readily moved without injury to the building. The entire granary is supported upon posts which are set at an angle of about forty degrees, and are arranged in pairs, the upper ends of the posts of each pair being firmly cured to each other. Hanging posts are inclined at an angle of about thirty degrees in the opposite direction from the above mentioned posts. By other and suitable construction the granary is fully protected from rats and other vermin, as the inclination of the exposed parts affords them no chance to stand or sit and gnaw.

EARTH AUGER.-Isaac N. Pyle, Cameron, Mo.-The invention consists of an earth borer in which two jaws are affixed to the lower ends of upright arched plates, which are, respectively, attached to the pendent arms of a shank. This shank is double, its upper or stem parts being held together by means of straps placed around them. A wedge can, from below, be forced in between the parts of the shank to spread the jaws and plates to a suitable extent. The plates arc slotted, and are secured to the pendent parts of the shank. Two other curved plates are placed between the plates and have jaws flexibly attached to their lower ends, and are only used in sand. The jaws serve as valves to let the sand in and prevent its escape, thus constituting a trap in which the sand bored out will be collected convenient for

BAKE PAN.-Richard D. McDonald, Jersey City, N. J.-This invention relates to apparatus to be placed in ovens for baking bread or roasting meats, and all similar purposes; and it consists in the mode of connecting the parts together, or more definitely in a beyeled flange around the edge o the upper part of the pan. The angle of this flange, from a vertical line, is designed to be about the same as that of the sides and ends of the lower part of the pan, and is designed to form, with the lower part, a tight joint, so as to confine the gases or steam generated in the pan from the article being roasted or baked.

BURIAL CASE.-Collins C. W. Morgan, of Holly Springs, Miss.-This invention relates to connecting the two parts of a burial casket-made of terra cotta or other suitable material-by means of clips or clasps, and to constructing said clips or clasps with handles, thereby dispensing with the necessity of the handles ordinarily provided for coffins.

SUBSOIL PLOW .- Christian Myers and William Gummow, of Marysville, Cal.—The invention consists in the mode of adjusting the subsoil plow, Whereby it can be shifted independently and also arranging it with the common plow in such a manner as to avoid the necessity of the off horse walking over the loosened bottom of the furrow or in a very deep furrow. as in subsoiling in the common way. It also avoids the tramping or packing of the loosened earth in the bottom of the furrow, common to the ordinary

BRACELET.-William Edge, of Newark, N. J.-This invention has for its object to improve the construction of chain work bracelets, so as to better adapt them for keeping their form when worn, while at the same time making them more beautiful and elegant in appearance. It consists in a bracelet formed by turning the edges of a piece of chain work down over the edges of a metallic plate.

DRAWERS.-John Bellamy, of New York city.-This invention consists of drawers for men's wear, in which the parts forming the legs are cut by novel patterns, the outlines of which are of such form that with inflexible material the legs may fit the wearer tightly and not draw or bind across the knees, as drawers of inflexible goods now are apt to do unless made uncont fortably large.

FEATHER RENOVATOR.-Theodore J. Adams, of Ansonia, Conn.-This in vention has for its object to furnish an improved apparatus for renovating feathers, moss, hair, etc. In using the machine, the substance to be reno vated is placed in an inner cylinder through a door, which is then tightly closed, and steam is admitted through a hollow gudgeon which enters the inner cylinder through the perforations of thewall and a pipe, which insures the substance being thoroughly acted upon, the steam entering the substance both from the outside and center. When the substance has been sufficiently steamed the steam is shut off and the door opened, allowing the moisture to escape, the heat communicated by the steam being sufficient to evaporate all the moisture and thoroughly dry the substance.

LETTER BOX .- Anna T. Sinclaire, of New York city.- This invention has for its object to construct a letter and newspaper drop box, whose contents will be protected by a false bottom whenever the lid is opened, so that the fraudulent removal of letters or papers is effectually prevented. The invention consists in forming the said false bottom of two hinged plates that are arranged within the box and connected with the lid. or secured in such manner as to overlap each other when the lid is opened, and drop apart when the same is closed.

HAND VISE.—Thomas Overton, of Corpus Christi, Texas.—The object of this invention is to furnish an implement or tool for the use of mechanics, which can not only be used as a hand vise for holding small articles, but which can be attached to bits or augers for gaging the depth of the hole bored, and also countersinking such hole for screws. A slot is provided in the screw head, for convenience in setting saws.

FOLDING BOX BED.-Alfred G. Bayles, of New York city.-This invention has for its object to furnish an improved folding box bed, which, when folded, will occupy but little space, while at the same time furnishing a convenient receptacle for clothing and various other articles, and which, when opened out, will furnish a complete bed. The box or body of the bed is made in two parts which are hinged to each other at one side, and may be opened out. The spaces on which the two parts of the mattress rest are made of such a depth that the edges of said parts may project sufficiently above the mattress to give space for the bed clothes, so that when the bed is made up and the edges of the bed clothes tucked in around the edges of the mattress, the box may be opened and closed without disturbing the make up of the bed. The adjacent cdges of the two parts of the box, upon its hinged side, are cutaway so that they may not inconvenience the sleener. the mattress, when the bed is opened out, bulging over said recessed edges so as to be continuous. The edges of the part opposite the hinges may be provided with a board, which, when the box is opened, serves as a foot board to the bed. The bolster, when arranged for use, is placed upon a partition, the ends of which rest upon inclined cleats attached to the box, and the inner edge of which is hinged to the edge of the horizontal parti-tion. The part of the box beneath the partitions is divided into three spacesadapted to hold clothing and other purposes.

MACHINE FOR CUTTING NAIL PLATES .- Thomas Searle, Pottstown, Pa .-The invention consists in constructing and combining a feed table, feed tters, so that a pair of tongs may page freely and conveniently nearly up to the cutters, and thereby cause nearly the whole sheet of metal to be utilized. Secondly, it consists in bringing the frame that holds the feeding mechanism so that it may be turned back from the cutters and allow easy access to them. Thirdly, it consists in causing the feed rolls to rotate a little after the sheet has reached one or both of the gages so as to insure that any slight disarrangement which may have taken place will be remedied and the sheet presented to the knives always at exactly the same angle.

IMPROVEMENT IN THE ART OF DENTISTRY.-Robert Arthur, M.D., Baltiteeth by means of a thin abrading disk, which is rotated between them, and which completes the operation in greatly less time, with much less pain and annoyance to the patient, and in a far more workmanlike manner.

RAILWAY SNOW PLOW.-Jerome B. Hulbert and James Anderson, of Hermon, N. Y.—The invention consists, first, in making the lower part of the sides of a snow plow vertical, and the upper part of said sides backwardly ground. sloping, so as to cause the snow to rise as it is pushed laterally after passing the point, and the less compacted upper portion thereof to be turned over one side of the track. Secondly, it consists in hinging the sides of a snow plow so as to adapt it to light or heavy snows. Thirdly, it consists in the mode of combining an open front plow and screw with elevations, drive mechanism, and air forcing apparatus for compressing, elevating and discharging snow.

COMBINED CHAIR AND BED.-Jonathan H. Green, of Louisville, Ky.-This vention consists in a chair composed of a supporting frame having legs, a seat frame hinged to said frame, and a back frame having arms attached thereto, and hinged to said seat frame so that the parts of chair may be unfolded to make a bed.

STEAM BOILER AND FURNACE .- George W. Lascell, Syracuse, N. Y., as signor to himself and Hugh Robinson, Jersey City, N. J.—This invention has for its object to furnish an improved boiler and furnace for generating steam and for heating and evaporating purposes, which shall be so constructed as to consume the smoke and combustible gases that may be developed in the combustion of the fuel, and which shall, at the same time, be simple in construction and of greater steam generating, heating, or evaporating power than boilers and furnaces constructed in the ordinary manner. The tops of the fire chambers are left open, and the air to support the combustion passes in through the said open tops and passes down through the dead coal to the live coal in the lower part of said chambers, where the combustion takes place. The smoke and gaseous products of combustion pass through openings or flues in the side of the lower part of the boiler, where they mix with air entering throughperforations in the bottom of said boiler and are consumed. The perforations in the bottom of said boiler are regulated by means of a damper. The walls of the boiler are made double to form a water space. The water spaces between the double walls of the fire chambers are connected by pipes, into one of which the water is introduced surface of the inner end of the hub is cut a screw thread into which screws from the pump or reservoir. The other end of the pipe, that is broken to a tubular nut, and when the hub and nut are screwed together it will be imconnect with the pump or reservoir, is connected with the space between the double walls of the boiler, so that the water, before passing into the boller, circulates around all the fire chambers. The spaces between the double walls upon the opposite sides of each fire chamber are connected by pipes which are coiled or zigzagged across the inner ends of said chambers so as to be exposed to the heated products of combustion as they pass from said chambers into the interior of the boller. The water space between the double walls of the boller is made wider at the lower than at the upper part to form a contracted well or chamber, into which the smoke and other combustible gaseous products of combustion from the fire chambers are intro duced, and in which they are burned by the aid of the air introduced through the openings in the bottom of the boiler, which openings are regulated by the damper to introduce exactly the amount of air required to effect their thorough combustion. The lower part of a water pipe is coiled to form a ome-shaped partition at the top of the contracted partor combustion well, For the Week ending December 3, 1872, and Each in which the gases are consumed, which dome-shaped coil, in a measure, checks the ascent of the smoke and gases and secures their perfect combus tion. This pipe may pass up into and be combined with the dome or steam chest. The steam is conducted away through the pipe. The incombustible products of combustion pass up, through short pipes inserted in the double walled top of the boiler, into the space between the said top and the bottom of the dome, whence they pass into the space inclosed by the jacket, which incloses the dome and projects down along the sides of the boiler. The lower end of the jacket is left open, and is surrounded by another jacket which incloses the lower part of the boiler and the lower part of the first jacket, and extends up so as to overlap the lower part of the dome. The bottom and the top of the second jacket are closed, and the incombustible products of combustion escape from its upper part into the flue.

CAR COUPLING .- C. S. Flower, of Kickapoo City, Kansas, and C. F. Graves, Hickory, Iowa.-This invention has for its object to furnish an improved car coupling, which shall be so constructed that it will uncouple automatically should one or more cars get off the track, turn over, or drop down below the level of the other cars. Upon the forward end of the draw bar is formed the bumper head, which is attached to the car in the ordinary manner. The forward part of the bar or head becomes gradually wider, and upon the upper side of its forward end is formed a strong upwardly projecting flange, for the lower end of the coupling pin to rest against to su the draft, and which is made in the arc of a circle. A block, made of cast iron, is pivoted, toward its rear end, to the bar. Its forward end does not extend quite to the flange; to its side edges are boited bars or plates made of wrought iron, and the forward ends of which extend forward to the flange, and are notched upon their lower edges to fit upon said flange. To and between the forward ends of the bars is swiveled a short bar through which the coupling pin passes. By this construction should one or more of the cars get off the track or turn over, the block will swing around upon its nivoting bolt, and as soon as the end of the coupling pin has slipped from the end of the flange, the swiveled bar will turn, allowing the coupling link to slip from the coupling pin. By suitable construction, when the cars are in proper position upon the track, a spring holds the block down upon the draw bar; but should one or more of the cars drop below the level of the other cars, the forward end of the block will be raised, compressing the spring and raising the lower end of the coupling pin above the flange, allowing the swiveled bar to turn and the coupling link to slip from the coupling pin.

BRICK MACHINE.-Henry B. Ramsey, Rockville, Ind., assignor to A.K. Stark, of same place.-This invention relates to the class of brick machines adapted for a simultaneous and continuous working and discharge of the clay. The lower end of a vertical shaft revolves in the center of the bottom of a tank attached to the frame. The upper part of the shaft revolves in bearings attached to the upper part of the frame, and to its upper end is attached the sweep or lever by means of which the power is applied. To the shaft within the tank, and at different hights, are attached radial knives or arms by which the clay is worked into proper condition for entering the molds. The lowest knife revolves near the bottom of the tank and is so formed as to force the clay through an opening in the forward part of the said bottom, made of the size of a brick. An adjustable frame is secured to the frame below the tank to support the molds. The molds are inserted beneath the middle part of the tank from one side. To a shaft pivoted to the lower part of the frame work are attached arms which project upward and press against the rear side of the mold last inserted and push it forward beneath the openings into position to receive the clay. By suitable mechanism the molds may be moved forward twice at each revolution of the shaft. The rock shaft is drawn back to its place, when the arm is released, by a coiled or equivalent spring, and it may be operated by hand to move the first mold forward beneath the openings before the machine is started. As the filled molds move out upon the frame, they are removed by the off-bear

CORNHARVESTER.-Jacob Bowers, Iola, Kansas.-This invention has for its object to furnish an improved machine for cutting and shocking corn. The wheels, are securely attached to the axle, so as to carry the said axle with them in their revolution. The forward part of the platform is piv oted at its rear end to the frame, so that the forward end of the saidpart may be raised and lowered to cut the corn higher or lower, as may be desired. The forward end of the pivoted part of the platform by suitable means is held in any position into which it may be adjusted. To the for ward end of the pivoted part of the platform are attached two stationary knives, the inner edges of the forward parts of which incline from each other, to serve as guides to bring the stalks into proper position to be cut by a vibrating cutter, which is pivoted to the platform. The forward part of the side edges of the cutter are made inclined or curved, to adapt it to acrve as guides to conduct the stalks into proper position to be cut, and the rear part of the side edges concaved to give them a better hold upon the stalks while cutting them. The cutter is vibrated by the advance of the machine. To the platform are attached two upright frames, between which the corn stalks, after being cut, are carried back to the rear part of the platmore, Md. - The invention consists in a method of separating or spacing form. To the top bars of the upright frames are attached springs which are designed to keep the corn stalks from falling forward while being carried rearward. Proper means are provided to serve as a reel to sweep the top parts of the corn stalks into the space between the upright frames and hold them in, or nearly in, a horizontal position. A further combination of ingenious devices removes the corn shock from the platform and sets it on the

TERRA COTTA GRAVE COVER.—Collins C. W. Morgan, Holly Springs, Miss. -This invention consists of a terra cotta cover for graves, being in the form of an inverted hollow cover adapted to inclose the mound, with a base resting on the ground around it, the base being a large projecting flange with a groove descending from the head to the foot, and forming a water course for conducting the water shed from the cover into a gutter at the foot to prevent it from washing the earth away around its base

Washing Machine.-John Turner, Oakdale Station, Pa.-This invention has for its object to furnish an improved washing machine, and it consists in the two closely slotted self-adjusting racks and the vibrating lever presser, slotted at right angles with the racks. The clothes to be washed are divided, and part is placed upon each side of the presser. As the presser is moved in either direction, the clothes in front of said presser are $forced\ against\ the\ rack,\ the\ pivets\ of\ which enable\ the\ said\ racks\ to\ adjust$ themselves so that the clothes may be pressed evenly. As the presser retires, the clothes fall back into the water to be again saturated.

WHEEL FOR VEHICLE.-Walter D. Howell, Newburgh, N. Y.-The main body of the hub is cost with a closed outer end and with a solid ring flange for the outer edges of the inner ends of the spokes to rest against. At the inner side of the flange is formed a ring groove to receive the inner ends of the spokes, the shoulder at the inner side of said groove being made low. The inner ends of the spokes are made widest at their extreme ends, and a ring plate is made, somewhat dishing so as to press against the edges of the said spokes. Upon the outer side of the plate is formed a circular bead, which fits into a circular groove in the side of the nut, so as when the nut is screwed up to hold the segmental plate securely in place. Putty, with iron filings mixed into it, may be placed between the plate and the edges of the spokes to give the said plate a firmer hold upon the said spokes. Upon the inner surface of the hub is formed an offset or shoulder, and in the inner possible for the wheel to work itself loose or off. By this construction a chamber is left between the end of the halved nut and the shoulder, which is designed to be filled with sponge, and thus to serve as an oil reservoir, into which oil may be poured.

[OFFICIAL.]

Index of Inventions

For which Letters Patent of the United States were granted.

BEARING THAT DATE.

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	SCHEDULE OF PATENT FEES:	
	On each Caveat	\$11
L	On each Trade-Mark	
	On filing each application for a Patent (seventeen years)	
	On issuing each original Patent	\$20
J	On appeal to Examiners-in-Chief	.\$16
	On appeal to Commissioner of Patents	401
	On application for Reissue.	\$30
	On application for Extension of Patent	\$50
	On granting the Extension	
	On filing a Disclaimer	
	On an application for Design (three and a half years)	
	Onan application for Design (seven years)	
	On an application for Design (fourteen years)	\$30
1		
	Ash ejector for steam engines, G. P. Hunt	
	Auger, hollow, J. Deming	133,57
	Auger, hollow, M. L. Edwards	
٠	Awnings, frame for shade, J. Drechsler	
	Bath, vapor, Estabrook and McDonald	
	Bed spring, M. M. Murray.	133,66
	Billiards, chalk holder for, R. H. Thomas	
	Biuder, temporary, Gaffney and Williams.	
.	Blackboard, F. G. Johnson	133,58
	Boat-detaching apparatus, W. M. Woods, Jr	133,69
	Boiler, kitchen, W. B. Scaife	
i	Boiler fountain, wash, R. S. Manning	
	Boiler flue scraper, steam, Freeman and Armbruster	
	Bolts and nuts, cutting screw threads on, G. Emig.	
	Boot and shoe rand, J. H. Walker	133.68
	Boots and shoes, machine for cutting rands for, J. H. Walker	133.68
	Brake for land conveyances, M. T. Kosinski	
	Buckle halter, A. McGaffey	
	Burial cases, mold for cement, P. B. Viele	
	Butter bucket or package, N. L. Burnap	133,62
	Buttonholes, securing, J. Watters	133.55
	Can, oil, B. W. Tuttle	100 60
	Can sheet motel I T Delen-	100,000
	Can, sheet metal, J. L. Delany.	133,63
	Car brake, F. M. Chapman	
	Car coupling, G. W. McEwen	133,53
	Car coupling, T. P. Clines.	133.56
,	Carpenter's plane iron, A. N. Cross	100,000
	Compet fortener T C Coult	133,03
	Carpet fastener, J. C. Craft	133,56
	Carpet stretcher, H. N. Tucker	133,55
	Carriage spring, A. A. Livingston	133,65
i	Carriage top prop, J. Bauer	133,61
	Cart, dumping, G. Zoanny	
	Cartridge loader, J. S. Warner.	100,010
	Cartridge loader, J. S. Warner	133,60
	Caster, furniture, A. H. Lighthall	133,65
	Cement kiln, J. E. Park	133,66
L	Chair, D. L. Akers	133,55
•	Chair, adjustable, R. A. Thompson	
	Chair, barber's, F. J. Coates.	
	Chair, folding, F. B. Fabri	
	Chair seat, Bjorkman and Lagergren	133,62
,	Chair and step ladder combined, C. B. Rawson	133,59
3	Churn dasher, J. A. Brooks	
•	Clothes dryer, J. N. Valley, (reissue).	
		155,53
	Cock, compression, Balley and Porteous.	133,55
	Coffee roaster, A. Broman	133,62
l	Coffee roaster, Dailey and Dougherty	133.63
	Corn husker, hand, S. H. Mitchell	133.65
ţ	Cover, rick, P. M. Brown	
	Cultivator and plow, L. R. Wright.	100 04
	Cuntain flature H D Cinculat	100,01
•	Curtain fixture, H. B. Gingrich	133,64
	Dental tool for separating teeth, R. Arthur	133,61
•	Desk, school, R. A. Thompson	138.55
l	Earth closet, C. A. Wakefield.	132.68
;	Embossing and compressing machine, hydraulic, J. Robertson	100 #4
	Desire bet ein C.D. Territt	133,34
	Engine, hot air, C. P. Leavitt	133,64
•	Engine, ash ejector for steam, G. P. Hunt	133,53
,	Engines, valve gearing for steam, J. N. Hackworth	133,52
,	Fence, iron, J. Gorr	
,	Fence, Portable, J.R. Robbins.	199 84
ı	Pance portable C McQuiston	100,04
	Fence, portable, G. McQuisten.	133,65
	Fermentation and distillation, J. E. Siebel	133,67
•	Fire arms, breech loading, W. Richards	133,66
Ĺ	Fruit jar, N. C. Burnap	133,51
•	Furnace, reverberatory, J. Westerman	189 69
l	Furnace for heating crueibles R A Mason	100,00
	Furnace for heating crucibles, B. A. Mason.	133,53
	Furrowing machine, P. Jotter	133,53
ř	Gas, carbureting hydrogen, R. V. DeGuinon	133,56
	Gas tubing, manufacture of flexible, G. L. Burnham	133.56
	Gate, T. D. Taylor	
	Gate post, portable, W. A. Dillon	100 87
•		
	Glass, mold for working, Aubin and Colné	
•	Grain dryer, Meyand Dopp	
	Grain bagging scoop, G. B. Chaffin	133,56
•	Grater, vegetable, J. Keagy	123,58
		,
	Gunpowder, L. and E. Dupont	199.50

Harrow, A. W. Bohaker.	188,62
Harvester, friction gear for, H.F. and G.F. Shaw	183,67
Holder, work, E. P. Forbes.	100,04
Horse power, W. Schuyler.	100,04
Horseshoe, J. Stickney	180,54
Ice houses, fillings for walls of, C. Stoll	100,08
Insect powder, H. S. Danziger	
Iron and steel in runways, refining, S. M. Wickersham	
Journal box, self-lubricating, W. W. Crane, (reissue)	100 24
Knife scourer, F. O. Harvey	
Lamp chandelier, R. S. Mains	
Lamp, light house, S. K. Jackson	100,04
Lathe, H. E. Nickerson	188,58
Leather straps, creasing roll for, J. F. Moloney	
Letter box, S. S. Williams	
Lever for latches, C. C. Lewis	
Loom shuttle check, E. W. Bray.	138,62
Lozenge cutting machine, preparing paste for, W. E. Damant (reissue)	5,17
Lubricator, F. R. Glascock	133,58
Mash tun, C. Stoll.	
Mill, cider, J. I. White	
Mitten, E. V. Whitaker	
Molding bung bushes, apparatus for, J. More	
Moldingmachine cutters, machine for shaping, W. H. Brown	
Muff, R. M. Seldis.	
Nail plates, machine for cutting, T. Searls	
Ore jigger, J. F. Utsch	
Organs, swell for pipe, F. H. Hastings	
Packing, piston, J. M. Clay	
Paper puncturing device, T.F. Corry	
Petroleum, treating, E. Schalk	
Photographic plate holder, W.L. Gill.	
Pipe, molding, J. D. Johnson	
Fipe molding machine, D. Long	
Planing machine, miter, J. Mannebach	
Planter, corn, T. H. Ballard	
Plow, T.H. Burgess.	
Plow, W. H. Conaway	133,631
Pot, coffee, M. Hofman	133,582
Pot, coffee, F. I. Tarlton.	133,681
Pump, acid, L. H. Fisher	133,639
Purifier, middlings, L. Mowry	133,662
Railroad frog, J. Brahn	133,559
Railroad track, J. Y. Kepler	
Railroad rail joint, H. Williams	
Railroad switch lock, J. L. Anderson	
Roll for condensercards, rub, W. Ferguson	
Rolling mills, plate and sheet guide for, J. Moore.	
Rubber coated buckles, etc. manufacture of, R. C. Dnnham (reissue).	
Rubber to buckles, rings, etc., applying hard, R. C. Dunham (reissue).	
Safe, burglar proof, J. Farrel.	
Sap spout, C. C. Post (reissue)	
Saw mill, A. D. Clark	
Saw bench rest. E. Moore	133 661
Saw bench rest, E. Moore	133,661
Saw table gage, P.G. Finn	133,577
Saw table gage, P.G. Finn. Saw strainer, scroll, J. Chase.	133,577 133,563
Saw table gage, P.G. Finn. Saw strainer, scroll, J. Chase. Screw taps, threading, A. and A. E. Goddard.	133,563 133,527
Saw table gage, P.G. Finn. Saw strainer, scroll, J. Chase. Screw taps, threading, A. and A. E. Goddard. Screw threads on bolts and nuts, machine forcutting, G. Emig.	133,563 133,563 133,527 133,574
Saw table gage, P.G. Finn. Saw strainer, scroll, J. Chase. Screw taps, threading, A. and A. E. Goddard. Screw threads on bolts and nuts, machine for cutting, G. Emig Separator, grain, King and Cronkite.	133,563 133,563 133,527 133,574 133,648
Saw table gage, P.G. Finn. Saw strainer, scroll, J. Chase. Screw taps, threading, A. and A. E. Goddard. Screw threads on bolts and nuts, machine for cutting, G. Emig Separator, grain, King and Cronkite. Sewing machine, S. S. Turner.	133,577 133,563 133,527 133,574 133,648 133,553
Saw stable gage, P. G. Finn Saw strainer, scroll, J. Chase. Screw taps, threading, A. and A. E. Goddard. Screw threads on bolts and nuts, machine for cutting, G. Emig Separator, grain, King and Cronkite. Sewing machine, S. S. Turner. Sewing machine treadle, A. Wilmot	133,577 133,563 133,527 133,574 133,648 133,553 133,613
Saw table gage, P. G. Finn. Saw strainer, scroll, J. Chase. Screw taps, threading, A. and A. E. Goddard. Screw threads on bolts and nuts, machine for cutting, G. Emig Separator, grain, King and Cronkite. Sewing machine, S. S. Turner. Sewing machine treadle, A. Wilmot Shaft coupling, R. W. Benedict	133,577 133,563 133,574 133,648 133,553 133,613 133,620
Saw table gage, P.G. Finn. Saw strainer, scroll, J. Chase. Screw taps, threading, A. and A. E. Goddard. Screw threads on bolts and nuts, machine for cutting, G. Emig. Separator, grain, King and Cronkite. Sewing machine, S. S. Turner. Sewing machine treadle, A. Wilmot Shaft coupling, R. W. Benedict. Ships, construction of, J. Betteley.	133,577 133,563 133,574 133,648 133,613 133,613 133,620 133,621
Saw table gage, P.G. Finn. Saw strainer, scroll, J. Chase. Screw taps, threading, A. and A. E. Goddard. Screw threads on bolts and nuts, machine for cutting, G. Emig Separator, grain, King and Cronkite. Sewing machine, S. S. Turner Sewing machine treadle, A. Wilmot Shaft coupling, R. W. Benedict Ships, construction of, J. Betteley. Shoe and other lacings, metal tip for, W.B. Moore.	133,563 133,563 133,574 133,648 133,653 133,620 133,621 133,540
Saw table gage, P. G. Finn Saw strainer, scroll, J. Chase. Screw taps, threading, A. and A. E. Goddard. Screw threads on bolts and nuts, machine for cutting, G. Emig. Separator, grain, King and Cronkite. Sewing machine, S. S. Turner. Sewing machine treadle, A. Wilmot Shaft coupling, R. W. Benedict. Ships, construction of, J. Betteley Shoe and other lacings, metal tip for, W.B. Moore. Shoemaker's lasting pluchers, A. Dufoult.	133,557 133,563 133,527 133,574 133,648 133,553 133,620 133,621 133,540 133,521
Saw table gage, P. G. Finn. Saw strainer, scroll, J. Chase. Screw taps, threading, A. and A. E. Goddard. Screw threads on bolts and nuts, machine for cutting, G. Emig. Separator, grain, King and Cronkite. Sewing machine, S. S. Turner. Sewing machine treadle, A. Wilmot Shaft coupling, R. W. Benedict. Ships, construction of, J. Betteley. Shoe and other lacings, metal tip for, W.B. Moore. Shoemaker's lasting pinchers, A. Dufoult. Sidewalk, concrete, L. P. Rogers.	133,557 133,552 133,574 133,648 133,553 133,620 133,621 133,540 133,541
Saw table gage, P. G. Finn Saw strainer, scroll, J. Chase. Screw taps, threading, A. and A. E. Goddard. Screw threads on bolts and nuts, machine forcutting, G. Emig. Separator, grain, King and Cronkite. Sewing machine, S. S. Turner. Sewing machine treadle, A. Wilmot Shaft coupling, R. W. Benedict. Ships, construction of, J. Betteley. Shoe and other lacings, metal tip for, W.B. Moore. Shoemaker's lasting pinchers, A. Dufoult. Sidewalk, concrete, L. P. Rogers. Sofa, folding, R. Stewart.	133,577 133,563 138,527 133,574 133,648 133,553 133,620 133,621 133,540 133,541 133,544 133,548
Saw table gage, P.G. Finn. Saw strainer, scroll, J. Chase. Screw taps, threading, A. and A. E. Goddard. Screw threads on bolts and nuts, machine for cutting, G. Emig. Separator, grain, King and Cronkite. Sewing machine, S. S. Turner. Sewing machine treadle, A. Wilmot Shaft coupling, R. W. Benedict. Ships, construction of, J. Betteley Shoe and other lacings, metal tip for, W.B. Moore. Shoemaker's lasting pinchers, A. Dufoult. Sidewalk, concrete, L. P. Rogers. Sofa, folding, R. Stewart. Spark arrester for locomotives, W. Martien. 133,655,	133,577 133,563 133,574 133,648 133,553 133,620 133,621 133,540 133,541 133,548 133,548 133,548
Saw table gage, P. G. Finn Saw strainer, scroll, J. Chase. Screw taps, threading, A. and A. E. Goddard. Screw threads on bolts and nuts, machine for cutting, G. Emig. Separator, grafin, King and Cronkite. Sewing machine, S. S. Turner. Sewing machine treadle, A. Wilmot Shaft coupling, R. W. Benedict. Ships, construction of, J. Betteley Shoe and other lacings, metal tip for, W.B. Moore. Shoemaker's lasting pluchers, A. Dufoult Sidewalk, concrete, L. P. Rogers. Sofa, folding, R. Stewart. Spark arrester for locomotives, W. Martien. 133,655, Spirits, distilling alcoholic, H. Fake.	133,577 133,563 133,574 133,648 133,553 133,620 133,621 133,540 133,541 133,548 133,548 133,548 133,548
Saw table gage, P. G. Finn. Saw strainer, scroll, J. Chase. Screw taps, threading, A. and A. E. Goddard. Screw threads on bolts and nuts, machine for cutting, G. Emig. Separator, grain, King and Cronkite. Sewing machine, S. S. Turner. Sewing machine treadle, A. Wilmot Shaft coupling, R. W. Benedict. Ships, construction of, J. Betteley. Shoe and other lacings, metal tip for, W. B. Moore. Shoemaker's lasting pluchers, A. Dufoult. Sidewalk, concrete, L. P. Rogers. Sofa, folding, R. Stewart. Spark arrester for locomotives, W. Martien. Spirits, distilling alcoholic, H. Fake. Sponge tents, implements for the manufacture of, W. Schedde.	133,577 133,563 133,574 133,648 133,553 133,620 133,621 133,540 133,541 133,548 133,548 133,548 133,548 133,548
Saw table gage, P. G. Finn Saw strainer, scroll, J. Chase. Screw taps, threading, A. and A. E. Goddard. Screw threads on bolts and nuts, machine forcutting, G. Emig. Separator, grain, King and Cronkite. Sewing machine, S. S. Turner. Sewing machine treadle, A. Wilmot Shaft coupling, R. W. Benedict. Ships, construction of, J. Betteley. Shoe and other lacings, metal tip for, W.B. Moore. Shoemaker's lasting pinchers, A. Dufoult. Sidewalk, concrete, L. P. Rogers. Sofa, folding, R. Stewart. Spark arrester for locomotives, W. Martien. 133,655, Spirits, distilling alcoholic, H. Fake. Sponge tents, implements for the manufacture of, W. Schedde. Spoon, mixing, W. S. Clarke.	133,577 133,563 133,574 133,642 133,653 133,620 133,621 133,540 133,544 133,548 133,548 133,548 133,548 133,548 133,548 133,548
Saw table gage, P. G. Finn Saw strainer, scroll, J. Chase. Screw taps, threading, A. and A. E. Goddard. Screw threads on bolts and nuts, machine for cutting, G. Emig. Separator, grafu, King and Cronkite Sewing machine, S. S. Turner. Sewing machine treadle, A. Wilmot Shaft coupling, R. W. Benedict. Ships, construction of, J. Betteley Shoe and other lacings, metal tip for, W.B. Moore. Shoemaker's lasting pluchers, A. Dufoult. Sidewalk, concrete, L. P. Rogers. Sofa, folding, R. Stewart. Spark arrester for locomotives, W. Martien. 133,655, Spirits, distilling alcoholic, H. Fake. Spoonge tents, implements for the manufacture of, W. Schedde. Spoon, mixing, W. S. Clarke. Stamp canceler, J. E. Thomson.	133,577 133,563 133,574 133,642 133,553 133,620 133,540 133,541 133,544 133,544 133,544 133,544 133,544 133,544 133,544 133,656 133,523
Saw table gage, P. G. Finn Saw strainer, scroll, J. Chase. Screw taps, threading, A. and A. E. Goddard. Screw threads on bolts and nuts, machine for cutting, G. Emig. Separator, grain, King and Cronkite. Sewing machine, S. S. Turner. Sewing machine treadle, A. Wilmot Shaft coupling, R. W. Benedict. Ships, construction of, J. Betteley Shoe and other lacings, metal tip for, W.B. Moore. Shoemaker's lasting pinchers, A. Dufoult. Sidewalk, concrete, L. P. Rogers. Sofa, folding, R. Stewart. Spark arrester for locomotives, W. Martien. Spark arrester for locomotives, W. Martien. Spark arrester for locomotives, W. Schedde. Spoon, mixing, W. S. Clarke. Stamp canceler, J. E. Thomson. Stamping sheet metal, L. W. Hemp.	133,577 133,563 138,527 133,648 133,653 133,620 133,621 133,540 133,544 133,548 133,556 133,523 133,567 133,567 133,567 133,532
Saw table gage, P. G. Finn. Saw strainer, scroll, J. Chase. Screw taps, threading, A. and A. E. Goddard. Screw threads on bolts and nuts, machine for cutting, G. Emig. Separator, grain, King and Cronkite. Sewing machine, S. S. Turner. Sewing machine treadle, A. Wilmot Shaft coupling, R. W. Benedict. Ships, construction of, J. Betteley. Shoe and other lacings, metal tip for, W.B. Moore. Shoemaker's lasting pinchers, A. Dufoult. Sidewalk, concrete, L. P. Rogers. Sofa, folding, R. Stewart. Spark arrester for locomotives, W. Martien. Spirits, distilling alcoholic, H. Fake. Sponge tents, implements for the manufacture of, W. Schedde. Spoon, mixing, W. S. Clarke. Stamp canceler, J. E. Thomson. Stamping sheet metal, L. W. Hemp. Stone, hardening artificial, G. Richardson.	133,577 133,563 138,527 133,648 133,633 133,620 133,540 133,541 133,548 133,548 133,548 133,548 133,548 133,548 133,548 133,548 133,548 133,548 133,548 133,566 133,532 133,666
Saw stable gage, P. G. Finn Saw strainer, scroll, J. Chase. Screw taps, threading, A. and A. E. Goddard. Screw threads on bolts and nuts, machine for cutting, G. Emig. Separator, grain, King and Cronkite. Sewing machine, S. S. Turner. Sewing machine treadle, A. Wilmot Shaft coupling, R. W. Benedict. Ships, construction of, J. Betteley. Shoe and other lacings, metal tip for, W.B. Moore. Shoemaker's lasting pinchers, A. Dufoult. Sidewalk, concrete, L. P. Rogers. Sofa, folding, R. Stewart. Spark arrester for locomotives, W. Martien. 133,655, Spirits, distilling alcoholic, H. Fake. Sponge tents, implements for the manufacture of, W. Schedde. Spoon, mixing, W. S. Clarke. Stamp canceler, J. E. Thomson Stamping sheet metal, L. W. Hemp. Stone, hardening artificial, G. Richardson. Stone, kiln for making artificial, D. M. Sprogle.	133,577 133,563 133,574 133,642 133,620 133,620 133,620 133,540 133,544 133,548 133,548 133,548 133,661 133,564 133,564 133,564 133,564 133,564 133,564 133,564
Saw table gage, P. G. Finn Saw strainer, scroll, J. Chase. Screw taps, threading, A. and A. E. Goddard. Screw taps, threading, A. and A. E. Goddard. Screw threads on bolts and nuts, machine for cutting, G. Emig. Separator, grafu, King and Cronkite Sewing machine, S. S. Turner. Sewing machine treadle, A. Wilmot Shaft coupling, R. W. Benedict. Ships, construction of, J. Betteley Shoe and other lacings, metal tip for, W.B. Moore. Shoemaker's lasting pluchers, A. Dufoult. Sidewalk, concrete, L. P. Rogers. Sofa, folding, R. Stewart. Spark arrester for locomotives, W. Martien. 133,655, Spirits, distilling alcoholic, H. Fake. Sponge tents, implements for the manufacture of, W. Schedde. Spoon, mixing, W. S. Clarke. Stamp canceler, J. E. Thomson. Stamping sheet metal, L. W. Hemp. Stone, hardening artificial, G. Richardson. Stone, kiln for making artificial, D. M. Sprogle.	133,577 133,563 133,552 133,553 133,620 133,620 133,621 133,544 133,548 133,548 133,553 133,523 133,523 133,532 133,532 133,532 133,532 133,532 133,532 133,532 133,532
Saw table gage, P. G. Finn Saw strainer, scroll, J. Chase. Screw taps, threading, A. and A. E. Goddard. Screw threads on bolts and nuts, machine for cutting, G. Emig. Separator, grain, King and Cronkite. Sewing machine, S. S. Turner. Sewing machine treadle, A. Wilmot Shaft coupling, R. W. Benedict. Ships, construction of, J. Betteley Shoe and other lacings, metal tip for, W. B. Moore. Shoemaker's lasting pinchers, A. Dufoult. Sidewalk, concrete, L. P. Rogers. Sofa, folding, R. Stewart. Spark arrester for locomotives, W. Martien. Spark arrester for locomotives, W. Martien. Sponge tents, implements for the manufacture of, W. Schédde. Spoon, mixing, W. S. Clarke. Stamp canceler, J. E. Thomson. Stamping sheet metal, L. W. Hemp. Stone, hardening artificial, G. Richardson. Stone, kiln for making artificial, D. M. Sprogle. Stove, cooking, H. J. Ruttau. Stove, base burning, C. O. Westland.	133,577 133,563 133,527 133,574 133,648 133,553 133,618 133,523 133,549 133,548 134,548 134,54
Saw table gage, P. G. Finn. Saw strainer, scroll, J. Chase. Screw taps, threading, A. and A. E. Goddard. Screw threads on bolts and nuts, machine for cutting, G. Emig. Separator, grain, King and Cronkite. Sewing machine, S. S. Turner. Sewing machine treadle, A. Wilmot Shaft coupling, R. W. Benedict. Ships, construction of, J. Betteley. Shoe and other lacings, metal tip for, W. B. Moore. Shoemaker's lasting pluchers, A. Dufoult. Sidewalk, concrete, L. P. Rogers. Sofa, folding, R. Stewart. Spark arrester for locomotives, W. Martien. Spirits, distilling alcoholic, H. Fake. Sponge tents, implements for the manufacture of, W. Schedde. Spoon, mixing, W. S. Clarke. Stamp canceler, J. E. Thomson. Stamping sheet metal, L. W. Hemp. Stone, hardening artificial, G. Richardson. Stone, kiln for making artificial, D. M. Sprogle. Stove, base burning, C. O. Westland. Stove, base burning, C. O. Westland.	133,577 133,563 133,527 133,564 133,527 133,646 133,553 133,618 133,620 133,523 133,618 133,523 133,646 133,523 133,647 133,548
Saw stable gage, P. G. Finn Saw strainer, scroll, J. Chase. Screw taps, threading, A. and A. E. Goddard. Screw taps, threading, A. and A. E. Goddard. Screw threads on bolts and nuts, machine for cutting, G. Emig. Separator, grafu, King and Cronkite Sewing machine, S. S. Turner. Sewing machine treadle, A. Wilmot Shaft coupling, R. W. Benedict. Ships, construction of, J. Betteley Shoe and other lacings, metal tip for, W. B. Moore Shoemaker's lasting pinchers, A. Dufoult Sidewalk, concrete, L. P. Rogers Sofa, folding, R. Stewart. Spark arrester for locomotives, W. Martien. 133,655, Spirits, distilling alcoholic, H. Fake. Sponge tents, implements for the manufacture of, W. Schedde. Spoon, mking, W. S. Clarke. Stamp canceler, J. E. Thomson Stamping sheet metal, L. W. Hemp. Stone, hardening artificial, G. Richardson. Stone, kiln for making artificial, D. M. Sprogle. Stove, cooking, H. J. Ruttan Stove, base burning, C. O. Westland Stove polish, liquid, H. A. Holmes. Stove feet, shoe for, A. D. Colea.	133,577 133,569 133,573 133,642 133,553 133,612 133,620 133,521 133,521 133,544 133,545 133,54
Saw table gage, P. G. Finn Saw strainer, scroll, J. Chase. Screw taps, threading, A. and A. E. Goddard. Screw taps, threading, A. and A. E. Goddard. Screw threads on bolts and nuts, machine for cutting, G. Emig. Separator, grafin, King and Cronkite Sewing machine, S. S. Turner. Sewing machine treadle, A. Wilmot Shaft coupling, R. W. Benedict. Ships, construction of, J. Betteley Shoe and other lacings, metal tip for, W.B. Moore. Shoemaker's lasting pluchers, A. Dufoult Sidewalk, concrete, L. P. Rogers. Sofa, folding, R. Stewart. Spark arrester for locomotives, W. Martien. Spark arrester for locomotives, W. Martien. 133,655, Spirits, distilling alcoholic, H. Fake. Sponge tents, implements for the manufacture of, W. Schedde. Spoon, mixing, W. S. Clarke. Stamp canceler, J. E. Thomson. Stamping sheet metal, L. W. Hemp. Stone, hardening artificial, G. Richardson. Stone, kiln for making artificial, D. M. Sprogle. Stove, cooking, H. J. Ruttan. Stove, base burning, C. O. Westland. Stove polish, liquid, H. A. Holmes. Stove feet, shoe for, A. D. Colea. Telegraph line insulator, H. J. Rogers.	133,577 133,563 133,527 133,564 133,527 133,564 133,553 133,620 133,621 133,540
Saw table gage, P. G. Finn Saw strainer, scroll, J. Chase. Screw taps, threading, A. and A. E. Goddard. Screw threads on bolts and nuts, machine for cutting, G. Emig. Separator, grain, King and Cronkite. Sewing machine, S. S. Turner. Sewing machine treadle, A. Wilmot Shaft coupling, R. W. Benedict. Ships, construction of, J. Betteley Shoe and other lacings, metal tip for, W.B. Moore. Shoemaker's lasting pinchers, A. Dufoult. Sidewalk, concrete, L. P. Rogers. Sofa, folding, R. Stewart. Spark arrester for locomotives, W. Martien. Spark arrester for locomotives, W. Martien. Sponge tents, implements for the manufacture of, W. Schedde. Spoon, mixing, W. S. Clarke. Stamp canceler, J. E. Thomson. Stamping sheet metal, L. W. Hemp. Stone, hardening artificial, G. Richardson. Stone, kiln for making artificial, D. M. Sprogle. Stove, cooking, H. J. Ruttan. Stove, base burning, C. O. Westland Stove polish, liquid, H. A. Holmes. Stove feet, shoe for, A. D. Colea. Tile flooring, hollow R. Kreischer, (reissue).	133,577 133,563 133,522 133,574 133,553 133,620 133,620 133,621 133,542 133,542 133,542 133,542 133,543 133,543 133,544 133,543 133,544 133,544 133,545 133,545 133,547 133,546 133,547 133,54
Saw stable gage, P. G. Finn. Saw strainer, scroll, J. Chase. Screw taps, threading, A. and A. E. Goddard. Screw threads on bolts and nuts, machine for cutting, G. Emig. Separator, grain, King and Cronkite. Sewing machine, S. S. Turner. Sewing machine treadle, A. Wilmot Shaft coupling, R. W. Benedict. Ships, construction of, J. Betteley Shoe and other lacings, metal tip for, W. B. Moore. Shoemaker's lasting pinchers, A. Dufoult. Sidewalk, concrete, L. P. Rogers. Sofa, folding, R. Stewart. Spark arrester for locomotives, W. Martien. Spirits, distilling alcoholic, H. Fake. Sponge tents, implements for the manufacture of, W. Schedde. Spoon, mixing, W. S. Clarke. Stamp canceler, J. E. Thomson. Stamping sheet metal, L. W. Hemp. Stone, hardening artificial, G. Richardson. Stone, kiln for making artificial, D. M. Sprogle. Stove, cooking, H. J. Ruttan. Stove polish, liquid, H. A. Holmes. Stove feet, shee for, A. D. Colea. Telegraph line insulator, H. J. Rogers. Tile flooring, hollow R. Kreischer, (reissue). Tobacco hanger, C. E. Phelps.	133,577 133,563 133,527 133,544 133,553 133,618 133,618 133,62 133,62 133,62 133,542 133,542 133,542 133,543 133,62 133,543 133,543 133,643 133,543 133,643 133,543 133,643 133,543 133,643 133,543 133,643 133,543 133,643 133,543 133,643 133,543 133,643 133,543 133,643 133,543 133,643 133,543 133,643 133,543 133,643 133,544 134,544 134,544 13
Saw stable gage, P. G. Finn Saw strainer, scroll, J. Chase. Screw taps, threading, A. and A. E. Goddard. Screw taps, threading, A. and A. E. Goddard. Screw threads on bolts and nuts, machine for cutting, G. Emig. Separator, grafu, King and Cronkite. Sewing machine, S. S. Turner. Sewing machine treadle, A. Wilmot Shaft coupling, R. W. Benedict. Ships, construction of, J. Betteley Shoe and other lacings, metal tip for, W.B. Moore. Shoemaker's lasting pinchers, A. Dufoult. Sidewalk, concrete, L. P. Rogers. Sofa, folding, R. Stewart. Spark arrester for locomotives, W. Martien. Spark arrester for locomotives, W. Martien. Spark arrester for locomotives, W. Martien. Spoon, mixing, W. S. Clarke. Spoonge tents, implements for the manufacture of, W. Schedde. Spoon, mixing, W. S. Clarke. Stamp canceler, J. E. Thomson. Stamping sheet metal, L. W. Hemp. Stone, hardening artificial, G. Richardson. Stone, kiln for making artificial, D. M. Sprogle. Stove, cooking, H. J. Ruttan Stove, base burning, C. O. Westland Stove polish, liquid, H. A. Holmes. Stove feet, shoe for, A. D. Colea. Telegraph line insulator, H. J. Rogers. Tile flooring, hollow R. Kreischer, (reissue). Tobacco hanger, C. E. Phelps.	133,577 133,542 133,542 133,543 133,649 133,649 133,649 133,640 133,641 133,544 133,544 133,544 133,544 133,544 133,544 133,545 133,544 133,545 133,544 133,545 133,547 133,547 133,547 133,547 133,547 133,547 133,547 133,547 133,547 133,547 133,547 133,547 133,547 133,547 133,547 133,547 133,547 133,547 133,548 133,588 133,588 133,588 133,588 133,588 133,588 133,588 133,588 133,588 133,588 133,588 133,588 133,588 133,588 133,588 133,588 133,58
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Saw stable gage, P. G. Finn Saw strainer, scroll, J. Chase. Screw taps, threading, A. and A. E. Goddard. Screw threads on bolts and nuts, machine for cutting, G. Emig. Separator, grain, King and Cronkite. Sewing machine, S. S. Turner. Sewing machine treadle, A. Wilmot Shaft coupling, R. W. Benedict. Ships, construction of, J. Betteley Shoe and other lacings, metal tip for, W. B. Moore. Shoemaker's lasting pinchers, A. Dufoult. Sidewalk, concrete, L. P. Rogers. Sofa, folding, R. Stewart. Spark arrester for locomotives, W. Martien. Spark arrester for locomotives, W. Martien. Sponge tents, implements for the manufacture of, W. Schedde. Spoon, mixing, W. S. Clarke. Stamp canceler, J. E. Thomson. Stamping sheet metal, L. W. Hemp. Stone, hardening artificial, G. Richardson. Stone, kiln for making artificial, D. M. Sprogle. Stove, cooking, H. J. Ruttan. Stove polish, liquid, H. A. Holmes. Stove feet, shoe for, A. D. Colea. Telegraph line insulator, H. J. Rogers. Tile flooring, hollow R. Kreischer, (reissue). Tobacco hanger, C. E. Phelps. Toilet bracket, J. S. Fletcher. Toilet brush, S. Barnes, (reissue). Tooth, nail and other brushes, G. A. Scott.	133,577 133,563 133,524 133,544 133,553 133,620 133,621 133,543 133,543 133,544 133,545 133,546 133,545 133,546 133,546 133,546 133,547 133,546 133,547 133,54
Saw stable gage, P. G. Finn. Saw strainer, scroll, J. Chase. Screw taps, threading, A. and A. E. Goddard. Screw threads on bolts and nuts, machine for cutting, G. Emig. Separator, grain, King and Cronkite. Sewing machine, S. S. Turner. Sewing machine treadle, A. Wilmot Shaft coupling, R. W. Benedict. Ships, construction of, J. Betteley. Shoe and other lacings, metal tip for, W.B. Moore. Shoemaker's lasting pinchers, A. Dufoult. Sidewalk, concrete, L. P. Rogers. Sofa, folding, R. Stewart. Spark arrester for locomotives, W. Martien. Spirits, distilling alcoholic, H. Fake. Sponge tents, implements for the manufacture of, W. Schedde. Spoon, mixing, W. S. Clarke. Stamp canceler, J. E. Thomson. Stamping sheet metal, L. W. Hemp. Stone, hardening artificial, G. Richardson. Stone, kiln for making artificial, D. M. Sprogle. Stove, cooking, H. J. Ruttan. Stove polish, liquid, H. A. Holmes. Stove feet, shoe for, A. D. Colea. Telegraph line insulator, H. J. Rogers. Tile flooring, hollow R. Kreischer, (reissue). Tobacco hanger, C. E. Phelps. Toliet brush, S. Barnes, (reissue). Toliet brush, S. Barnes, (reissue). Tooth, nail and other brushes, G. A. Scott. Tooth and nail brush handle, G. A. Scott.	133,577 133,563 133,527 133,544 133,553 133,613 133,613 133,621 133,621 133,542 133,54
Saw table gage, P. G. Finn Saw strainer, scroll, J. Chase. Screw taps, threading, A. and A. E. Goddard. Screw taps, threading, A. and A. E. Goddard. Screw threads on bolts and nuts, machine for cutting, G. Emig. Separator, grafu, King and Cronkite. Sewing machine, S. S. Turner. Sewing machine treadle, A. Wilmot Shaft coupling, R. W. Benedict. Ships, construction of, J. Betteley Shoe and other lacings, metal tip for, W.B. Moore. Shoemaker's lasting pluchers, A. Dufoult. Sidewalk, concrete, L. P. Rogers. Sofa, folding, R. Stewart. Spark arrester for locomotives, W. Martien. Spark arrester for locomotives, W. Martien. Spark arrester for locomotives, W. Martien. Spone, mixing, W. S. Clarke. Spoonge tents, implements for the manufacture of, W. Schende. Spoon, mixing, W. S. Clarke. Stamp canceler, J. E. Thomson. Stamping sheet metal, L. W. Hemp. Stone, hardening artificial, G. Richardson. Stone, kiln for making artificial, D. M. Sprogle. Stove, cooking, H. J. Ruttan. Stove, base burning, C. O. Westland Stove polish, liquid, H. A. Holmes. Stove feet, shoe for, A. D. Colea. Telegraph line insulator, H. J. Rogers. Tile flooring, hollow R. Kreischer, (reissue). Tobacco hanger, C. E. Phelps. Toilet brush, S. Barnes. (reissue). 5,168, Tooth, nail and other brushes, G. A. Scott. Trap, animal, H. J. Baddeley.	133,577 133,542 133,543 133,543 133,543 133,640 133,541 133,543 133,544 133,544 133,544 133,544 133,544 133,544 133,544 133,543 133,644 133,545 133,644 133,545 133,644 133,545 133,644 133,545 133,644 133,545 133,644 133,545 133,644 133,545 133,644 133,545 133,644 133,545 133,646 133,545 133,646 133,545 133,646 133,545 133,646 133,545 133,54
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APPLICATION FOR EXTENSION.

Application has been duly filed and is now pending for the extension of the following Letters Patent. Hearing upon the application is appointed for the day hereinafter named.

23,263.—Bottle Stopper Fastening.—H. W. Putnam. February 26, 1878.

EXTENSIONS GRANTED.

22,165.-PUMP.-A. Cooley. 22,364.—CAR SEAT AND SLEEPING COUCH.—P. B. Green 22,232.—Horse Rake.—C. Garver. 22 S10.—MACRINE FOR MAKING NUTS.—J. B. Savage 22,311.-LAMP SHADE SUPPORTER.-W. F. Shaw.

DESIGN PATENTED.

6,281.-Newel Post.-R. Lowry, Nashville, Tenn.

TRADEMARKS REGISTERED

1,075.-Mower, etc.-Adriance, Platt & Co., Poughkeepsie, N.Y., and N.Y. city. 1,076.—Isinglass.—Cape Ann Isinglass and Glue Company, Rockport, Mass. 1,077.—CONFECTIONERY.—H. Chaurant & Co., New Orleans, La. 1,078.—SUGAR CURED HAMS.—J. GRUBB & Co., Cincinnati, O. 1,079.-Dress TRIMINGS.-W. I. Peake, New York city.

Value of Patents,

AND HOW TO OBTAIN THEM.

Practical Hints to Inventors.



ROBABLY no investment of a small sum of money brings a greater return than the expense incurred in obtaining a patent even when the invention is but a small one. Larger inventions are found to pay correspendinglywell. The names of Blanchard, Morse, Bigelow, Colt, Ericsson, Howe, McCormick, Hoe, and tions, are well known. And there are thousands of others who have realized large sums from their patents.

More than FIFTY THOUSAND inventors have availed themselves of the services of MUNN & Co. during the TWENTY-SIX years they have acted as solicitors and Publishers of the Scientific American. They stand at the head in this class of business; and their large corps of a sistants, mostly selected from the ranks of the Patent Office: men capable of rendering the best service to the inventor, from the experience practically obtained while examiners in the Patent Office: enables MUNN & Co. to do everything appertaining to patents BETTER and CHEAPER than any

HOW TO COLONIA.

other reliable agency.

This is the closing inquiry in nearly every letter, describing some invention which comes to this office. A positive an-

wer can only be had by presenting a complete application for a patent to the Commissioner of Patents. An application consists of a Model Drawings, Petition, Oath, and full Specification. Various official rules and formalities must also be observed. The efforts of the inventor to do all this business himself are generally without success. After great perplexity and delay, he is usually glad to seek the aid of persons experienced in patent business, and have all the work done over again. The best plan is to solicit proper advice at the beginning. If the parties consulted are honorable men, the inventor may safely confide his ideas to them; they will advise whether the improvement is probably patentable, and will give him all the directions needful to protect his rights.

How Can I Best Secure My Invention?

This is an inquiry which one inventor naturally asks another, who has had some experience in obtaining patents. His answer generally is as follows,

Construct a neat model, not over a foot in any dimension-smaller if pos sible—and send by express, prepaid, addressed to Munn & Co., 37 Park Row, New York, together with a description of its operation and merits. On receipt thereof, they will examine the invention carefully, and advise you as to its patentability, free of charge. Or, if you have not time, or the means at hand, to construct a model, make as good a pen and ink sketch of the improvement as possible and send by mail. An answer as to the prospect of a patent will be received, usually, by return of mail. It is sometimes hest to have a search made at the Patent Office; such a measure often saves the cost of an application for a patent.

Preliminary Examination.

In order to have such search, make out a written description of the inven tion, in your own words, and a pencil, or pen and ink, sketch. Send these with the fee of \$5, by mail, addressed to Munn & Co., 37 Park Row, and in due time you will receive an acknowledgment thereof, followed by a written report in regard to the patentability of your improvement. This special search is made with great care, among the models and patents at Washing ton, to ascertain whether the improvement presented is patentable

Rejected Cases.

Rejected cases, or defective papers, remodeled for parties who have made applications for themselves, or through other agents. Terms moderate Address Munn & Co., stating particulars.

To Make an Application for a Patent.

The applicant for a patent should furnish a model of his invention if sus ceptible of one, although sometimes it may be dispensed with; or, if the invention be a chemical production, he must furnish samples of the ingredients of which his composition consists. These should be securely packed, the inventor's name marked on them, and sent by express, prepaid. Small models, from a distance, can often be sent cheaper by mail. The safest way to remit money is by a draft, or postal order, on New York, payable to the order of MUNN & Co. Persons who live in remote parts of the country can usually purchase drafts from their merchants on their New York cor-

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A reissue is granted to the original patentee, his heirs, or the assignees of the entire interest, when, by reason of an insufficient or defective specification, the original patent is invalid, provided the error has arisen from inadvertence, accident, or mistake, without any fraudulent or deceptive inten-

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Design patents are equally as important to citizens as to foreigners. For full particulars send for pamphlet to Munn & Co., 37 Park Row, New York.

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On the first of September, 1872, the new patent law of Canada went into force, and patents are now granted to citizens of the United States on the same favorable terms as to citizens of the Dominion.

In order to apply for a patent in Canada, the applicant must furnish a

model, specification and duplicate drawings, substantially the same as in applying for an American patent.

The patent may be taken out either for five years (government fee or \$20), for ten years (government fee \$40) or for fifteen years (government fee \$60). The five and ten year patents may be extended to the term of fifteen years. The formalities for extension are simple and not expensive.

American inventions, even if already patented in this country, can be patented in Canada provided the American patent is not more than one year

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