wheat to the break rolls. The flights of the conveyer are so constructed that the wheat will be carried from under the conveyer and thrown over the top to the opposite side, the grain being moistened by steam or water of condensation at a point above the conveyer, and the flights bringing the wheat in contact with the steam while the grains are thoroughly mixed to render them all equally moist. The grains are also thoroughly warmed, the heat serving to maintain the moisture on the exterior of the grain.

CHURN OPERATING MECHANISM. Zachariah A. Taylor, Bridgeport, Ala. For churns!having a vertically movable dasher, this inventor has devised an operating mechanism consisting of a snitably mounted drive shaft geared with a countershaft whose gear carries a series of pins adapted to engage an arm on a vertically movable cross head, the pins thus raising the cross head as the gear is revolved, and the cross head, which is connected with the dasher, being quickly returned by means of springs. Owing to the regularity of the stroke, the cream is not splashed or wasted, and the butter is quickly formed. The mechanism is simple and designed to be operated by a treadle.

JAR CLAMP.-Frank H. Palmer, Brooklyn, N. Y. According to this invention a ring-shaped frame seated on the jar cover has downwardly extending erms carrying lugs adapted to engage a flange on the neck of the jar, and on the top of the frame are lugs in which is held a spring rod on which is fulcrumed a cam with a friction roller in its cam end. By means of the cam lever the clamp is readily applied, the spring rod yielding sufficiently to prevent the cracking or breaking of glass, porcelain, etc., when the cover is clamped on the jar.

SANITARY PAIL.—Charles M. D. Baron, New York City. This invention covers an improve ment in the construction of a pail on which a patent was formerly granted to the same inventor, greatly lessening the cost of manufacture and providing an airtight cover for an ordinary pail, to be readily secured in place by means of the bail. The cover is light and strong, and the handle on the bail acts as a locking roller for the

Designs.

GRIP FOR SKIRTS, ETC.—Ella L. Cole, New York City. To hold a belt in close engagement with a skirt or trousers, this device has one depending shank adapted to go outside the belt and another depending shank on which are twin spurs or hooks.

Note.-Copies of any of the above patents will be furnished by Munn & Co. for 10 cents each. Please seud name of the patentee, title of invention, and date of this paper.

NEW BOOKS AND PUBLICATIONS.

ALASKA: Its History and Resources, Gold Fields, Routes, and Scenery. By Miner W. Bruce. I lustrated. New York: Frederick Warne & Company, 8 Cooper Union. Pp. 128. Cloth \$1.25. Paper edition 75 cents.

Many want to know about Alaska, what the much debated country is, what is its climate, its conditions of life and different industries. This desire, the present book, with beautiful illustrations and really attractive text, will excellently supply. There is much thatis practical and popular in it, such as the descriptions of the Indians, with their mode of life, with their boats, clothing, etc., all of which is in the line of the most attractive kind of anthropology. The illustrations from photographs are especially good, and say a great deal for the ir atmosphere of the country. One of Sitka, 10:30 P. M., speaking eloquently of the long Arctic twilight.

How to Do Business. By Seymour Eaton, of the Drexel Institute. Philadelphia. Philadelphia: P. W. Ziegier & Company. Pages 334.

This is, in many senses, an up-to-date book, bright, original, and full of information not generally found heretofore in books of this class. Modern methods of banking and making collections; the business in negotiable papers, stocks, bonds, and other securities; insurance; importing, exporting, shipping, and ware housing; margin trading; business correspondence; short cuts in figures; doing business by telegraph, and modern bookkeeping ideas, form the subjects of some of the most important chapters. For a young man wanting to understand how business in general is conducted as the great commercial centers, this book, thoroughly mac tered, affords a "short cut" to a most serviceable stock of information. Its author is Director of the Department of Industry and Finance of the Drexel Institute, and the book has questions for the subject matter of each chapter, thus adapting it for use in commercial schools and business colleges.

neering Magazine. Pages 474. Price

This volume, and the one preceding it, form a classi fled index to the engineering literature in the periodical press for the past eleven years. The work was begun by the Association of Engineering Societies, and is now being carried out by the Engineering Magazine, it being designed to publish an annual volume hereafter.

A MANUAL OF STEAM BOILERS. Their Design, Construction, and Operation.
By Dr. R. H. Thurston, Sibley College, Cornell University. New York:
John Wiley & Sons. Pages 879. Price \$5.

This is the fifth edition, revised and enlarged, of a well known standard work for technical schools and engineers, designed to be a fairly complete, systematic, and scientific treatise, while vet meeting the practical wants of an engineer laying out work. Dr. Thurston is also the author of a "History of the Steam Engine," "Engine and Boiler Trials," "Materials of Engineerand other works in this line, and for the past quarter of a century has been recognized as one of our leading authorities in mechanical engineering.

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The charge for Insertion under this head is One Dollar a line for each insertion; about eight words to a line. Adver-Thursday morning to appear in the following week's issue

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Minerals sent for examination should be distinctly marked or labeled.

(6957) W. E. K. says: Will you kindly give me a recipe for preserving cider, in your Notes and Queries? A. Professional cider makers are now using calcium sulphite (sulphite of lime), instead of mustard and sulphurous oxide gas. It is much more convenient and effectual. To use it, it is simply requisite to add 1/6 to 1/4 of an ounce of the sulphite to each gallon of cider in the cask, first mixing the powder in about a quart of the cider, then pouring it back into the cask and giving the latter a thorough shaking or rolling. After standing bunged several days to allow the sulphite to exert its full action, it may be bottled off. The sulphite of lime (which should not be mistaken for the sulphate of lime) is a commercial article. It will preserve the sweetness of the cider perfectly, but unless care is taken not to add too much of it, it will impart a slight sulphurons taste to the cider. The bottles and corks used should be per fectly clean, and the corks wired down. A little cinnamon, wintergreen, or sassafras, etc., is often added to sweet cider in the bottle, together with a drachm or so of bicarbonate of gods at the moment of driving the stopper This helps to nentralize the acids, and renders the liquid effervescent when unstoppered; but if used in excess, it may prejudicially affect the taste.

(6958) H. R. S. says: Will you please publish the receipt for making a flour paste? A. T. A. Richardson, the architect, recommends to every 2 tablespoonfuls of the best wheat flour to add a teaspoonful of common moist or brown sugar, and a few drops corrosive sublimate; the whole to be boiled, and continually stirred to prevent getting lumpy, till of the right thickness. To prevent mouldiness, a few drops of some essential oil, as lavender or peppermint.

THE ENGINEERING INDEX. Vol. II. (6959) J. C. W. says: Would you be so 1892-1895. New York: The Engi-kind as to send me your formula for browning blue prints with tannic acid and canstic potash, which came out in your valuable paper, at your earliest possible convenience? A. Immerse the blue print after it is dried in a solution of aqua ammonia containing 22 per cent am. gas, 2 parts; distilled water, 18 parts. Leave the print in this solution from two to four minutes, or until the blue color entirely disappears, then rinse in clear water, and plunge in a filtered solution of tannic acid. 2 parts: distilled water, 100 parts. Keep in this solution about twelve hours. If not as dark as desired, intensify by adding to the bath a few drops of ammonia water. Take out after a few minutes and wash thoroughly. The prints resemble sepia drawings. A greenish tone may be given blue prints by immersing after washing in a 1 per cent soluion of sulphuric acid.

> (6960) W. C. W. says: Will you please give me receipt for a good wine of coca? A. This is a French preparation. Its strength is about 1 in 30, and the dosea wineglassful. Coca wine is, roughly speak ing, about one-sixth of the strength of the official liquid extract (Extractum Cocæ Liquidum B. P., or Extractum Erythroxyli Fludium U. S.) To obtain the liquid extract, coca leaves are exhausted by percolation (which differs from either decoction or infusion) with proof

spirit. At the termination of the process the strength should be adjusted so that 1 ounce = 1 of leaves. The process of percolation is as follows: The leaves are placed in a vessel very like an elongated funnel, closed at its base by a porous diaphragm. This funnel fits into a receiver, and a small tube passes up its outer side and enters it near the top, forming a means of communication between the two. Spirit is now poured on the leaves, and the percolator closed. As the percolate filters slowly through into the reservoir, the displaced air passes up the tube, and so maintains an equilibrium in both vessels. The virtue of the coca leaves lies principally in the presence of the alkaloid cocaine. This, in the dried leaves, is supposed to exist as an inertealt, similar to many of the cinchona alkaloids in

(6961) M. H. R. says: I have a 12 inch reflecting telescope, 72 inch focus. What diameter and strength of concave lens is required to make an amplifier. or "Barlow" lens to be used with the telescope, to enable me to take photographs of the moon? And will it make any difference as to which side of the lens is put next to the eyepiece? A. It will depend on the mount or tube of the telescope as to where the amplifier can be placed. The nearer the focus the smaller diameter it can be. As to focus, it will depend on how much amplification is wanted. The general size of a Barlow lens is 1 inch diameter and 6 inches focus. If it is correctly made for photographing, it will not make any difference which side is in.

(6962) H. S. writes: Some weeks ago there was published in your weekly an exhaustive article on the heat-resisting powers of different materials suitable for steam boilers and pipe coverings. I am in a dispute as to the merits of hair or asbestos covering. So I want to right myself before deciding. A. We give the relative values of different materials. We give following tests of Mr. G. B. Dumford, of Hamilton, Ont.

Combination of asbestos, hair felt, air space Asbestos and hair felt and chopped straw, the straw mixed with lime putty...... 87 A plastic cement manufactured by parties at Troy, N. Y., with 1/2 inch half felt outside. 86.6 Paper pulp mixed with lime putty, 1 inch, covered with sheeting of wood pulp. ... 85 " cased with sheet iron...... 79 Loam and chopped straw sealed with wood.. 32 Fire brick 15 Red brick...... 12

(6963) F. F. says: Please be so kind as to inform me how to polish cattle horns. A. First scrape with glass to take off any roughness, then grind some pumice stone to powder, and with a piece of cloth wetted and dipped in the powder, rub them until a smooth face is obtained. Next polish with rottenstone and linseed oil, and finish with dry flour and a piece of clean linen rag. The more rubbing with the stone and oil, the better the polish. Trent sand is used in the Sheffield factories. It is a very fine and sharp sand, and is prepared for use by calcining and sifting.

TO INVENTORS.

An experience of nearly fifty years, and the preparation of more than one hundred thousand applications for patents at home and abroad, enable us to understand the laws and practice on both continents, and to possess unequaled facilities for procuring patents everywhere. A synopsis of the patent laws of the United States and all foreign countries may be had on application, and persons contemplating the securing of patents, either at home or abroad, are invited to write to this office for prices, which are low, in accordance with the times and our extensive facilities for conducting the business. Address MUNN & CO., office Scientific American, 381 Broadway, New York.

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September 8, 1896.

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Farrier's snife. F. M. Me Cartea. 667.02 Fence, flood. W. Chandier. 667.03 Fence, flood. W. Chandier. 667.03 Fence machine, wire. W. H. Campbell. 667.13 Fence post, H. & L. C. Grant. 667.13 Fence post, O. W. Whitebead. 567.35 Fence tit. bitener. wire. T. M. Kerns. 567.35 Fence tit. bitener. wire. T. M. Kerns. 567.35 Fence tit. bitener. wire. T. M. Kerns. 567.35 Fence wire. R. G. Kennedy. 567.47 Fence, wire, R. G. Kennedy. 567.47 Fence, wire, R. G. Kennedy. 567.47 Fence, wire, R. G. Kennedy. 567.47 Fence, seround base for iron, H. Burster. 567.35 Fender. See Car fender. Fire escape, portable, E. Riley. 567.35 Fender. See Car fender. 567.35 Fender. See Car fender. 567.35 Fender. See Car fender. 567.36 Fishing bait, artificial, C. J. W. Gaide. 567.37 Folding macbine. T. C. Derter. 567.30 Folding macbine. T. C. Derter. 567.36 Foot warmer, Rickard & Lowrie. 567.16 Fork. P. Newton. 567.18 Furlace. See Smelting furnace. 567.18 Furnace. See Smelting furnace. 567.18 Furnace offtake. blast, Rottboff & Neeland. 567.18 Furnace offtake. blast, Rottboff & Neeland. 567.18 Galvarier ring, M. U. Thompson. 567.27 Game apparatus. C. E. Butler. 567.36 Game apparatus. C. E. Butler. 567.36 Game apparatus. C. E. Butler. 567.37 Garbage, etc., process of and apparatus for treating, S. E. Wilson. 667.21 Garbage, etc., process of and apparatus for treating, S. E. Wilson. 667.21 Garbage, etc., process of and apparatus for treating, S. E. Wilson. 667.21 Garbage receptacle, K. Hirsch. 567.36 Garment supporter clasp. Thomson & Drever. 567.36 Garment suppo	Excavating machine, H. R. Keithley Explosive engine, G. H. Willetts	567,274 567,530 567,287
Fence bist, i. W. Writereat. Fence tool, wire. R. G. Kennedy Fence tool, wire. R. G. Kennedy Fences, ground base for iron, H. Burster. Fences, ground base for iron, H. Burster. Free escape, portable, E. Ritey Fender. See Car fender. Fire escape, portable, E. Ritey Feshing bait, artificial, C. J. W. G. aide. Fishing bait, artificial, C. J. W. G. aide. Foot warmer, Rickard & Lowrie. Foot warmer	Farrier's knife, F. M. Me Cartea	567,315 567,493
Fire escape, portable, E. Ritey 567,567 Fishing bait, artificial, C. J. W. 6 aide 567,316 Fishing bait, artificial, C. J. W. 6 aide 567,316 Fiexible joint or coupling, J. H. Glauber 567,307 Foot warmer, Rickard & Lowrie 567,67 Foot warmer, Rickard & Lowrie 567,19 Furlace. See Smelting furnace. Furnace. See Smelting furnace. Furnace offitake blast, Routhoff & Neeland 567,19 Furnace offitake blast, Routhoff & Neeland 567,19 Game apparatus. C. E. Butler 567,19 Game board. J. W. Waddell 567,17 Game board. J. W. Waddell 567,17 Garbage, etc. process of and apparatus for treating. S. E. Wilson 567,19 Garbage, etc. process of and apparatus for treating. S. E. Wilson 567,19 Garbage, etc. process of and apparatus for treating. S. E. Wilson 567,19 Garbage, etc. process of sond apparatus for treating. S. E. Wilson 567,19 Garbage, etc. process of sond apparatus for treating. S. E. Wilson 567,19 Garbage, etc. process of sond apparatus for treating. S. E. Wilson 567,19 Garbage, etc. process of sond apparatus for treating. S. E. Wilson 567,19 Gas engine, H. A. Winter 567,18 Gas engine, H. A. Winter 567,18 Gate. See End gate. Railway gate. 567,29 Gate. See End gate. Railway gate. 567,29 Gate. See End gate. Railway gate. 567,20 Gate. See End gate. Railway gate. 567,20 Gate. See End gate. Railway gate. 567,30 Gate. See End ga	Fence, flood, W. Chandler Fence machine, wire, W. H. Campbell. Fence post, D. & L. C. Grant	567 383 567,123 567,385
Fire escape, portable, E. Ritey 567,567 Fishing bait, artificial, C. J. W. 6 aide 567,316 Fishing bait, artificial, C. J. W. 6 aide 567,316 Fiexible joint or coupling, J. H. Glauber 567,307 Foot warmer, Rickard & Lowrie 567,67 Foot warmer, Rickard & Lowrie 567,19 Furlace. See Smelting furnace. Furnace. See Smelting furnace. Furnace offitake blast, Routhoff & Neeland 567,19 Furnace offitake blast, Routhoff & Neeland 567,19 Game apparatus. C. E. Butler 567,19 Game board. J. W. Waddell 567,17 Game board. J. W. Waddell 567,17 Garbage, etc. process of and apparatus for treating. S. E. Wilson 567,19 Garbage, etc. process of and apparatus for treating. S. E. Wilson 567,19 Garbage, etc. process of and apparatus for treating. S. E. Wilson 567,19 Garbage, etc. process of sond apparatus for treating. S. E. Wilson 567,19 Garbage, etc. process of sond apparatus for treating. S. E. Wilson 567,19 Garbage, etc. process of sond apparatus for treating. S. E. Wilson 567,19 Garbage, etc. process of sond apparatus for treating. S. E. Wilson 567,19 Gas engine, H. A. Winter 567,18 Gas engine, H. A. Winter 567,18 Gate. See End gate. Railway gate. 567,29 Gate. See End gate. Railway gate. 567,29 Gate. See End gate. Railway gate. 567,20 Gate. See End gate. Railway gate. 567,20 Gate. See End gate. Railway gate. 567,30 Gate. See End ga	Fence tis blener, wire, T. M. Kerns. Fence tool, wire, R. G. Kennedy. Fence, wire, R. G. Kennedy	567,142 567,477 567,478
Folding machine. T. Dexter 567.36 Fork P. Newton. 567.16 Fork P. Newton. 567.19 Furlace. See Smelting furnace. 567.19 Furnace. See Smelting furnace. 567.19 Furnace. R. L. Walker. 567.19 Furnace offtake. blast. Rotthoff & Neeland. 567.19 Furnace offtake. blast. Rotthoff & Neeland. 567.19 Galvarier ring, M. L. Thompson. 567.42 Game apparatus. C. E. Butter. 567.27 Game board. J. W. Waddell. 567.37 Garbake receptacle. K. Hirsch. 567.37 Garbake receptacle. K. Hirsch. 567.36 Garden supporter, R. W. Parramore. 567.36 Garden supporter clasp. Thomson & Drever. 567.36 Garment supporter clasp. Thomson & Drever. 567.36 Gas lighting, luminous material for incandescent. Gas lighting, luminous material for incandescent. Gas engine. H. A. Winter. Gas engine. Gas engine. H. A. Winter. Gas engine. H. A. Winter. Gas engine. Gas engine. H. A. Winter. Gas engine. H. A. Winter. Gas engine. Gas engine. H. A. Winter. Gas engine. Gas engine. H. A. Winter. Gas engine. Gas	Fences, ground base for iron, H. Burster Fender. See Car fender. Fire escape, portable, E. Riley Fishing bait, artificial, C. J. W. G aide	567 553
Fuel feeder and distributer. L. Myers	Foot warmer, Rickard & Lowrie	567,231 567,300 567,166
ong S. E. Wilson Garbase receptacle, K. Hirsch Garbase receptacle, K. Hirsch Garbase receptacle, K. Hirsch Garden rake, E. H. Snyder Garden rake, E. H. Snyder Garden rake, E. H. Snyder Garment supporter, R. W. Parramore. 657,387 Garment supporter clasp, Thomson & Drever. 657,187 Gas meter conformation of the conformation o	Fuel feeder and distributer, L. Myers	567,190
ong S. E. Wilson Garbase receptacle, K. Hirsch Garbase receptacle, K. Hirsch Garbase receptacle, K. Hirsch Garden rake, E. H. Snyder Garden rake, E. H. Snyder Garden rake, E. H. Snyder Garment supporter, R. W. Parramore. 657,387 Garment supporter clasp, Thomson & Drever. 657,187 Gas meter conformation of the conformation o	Galvaric ring, M. L. Thompson	567 422 567.218 567,177
Gas meter, coin freed, J Anderson. 587.44 Gate, See End gate. Railway gate. Gate, L. Clark. 567.52 Gate, J. W. Cottle. 567.52 Gate, J. W. Cottle. 567.52 Gate, J. W. Cottle. 567.22 Generator. See Alternating generator. Glass, means for working. H. Hilde. 567.23 Gale, J. W. Cottle. 567.23 Gold and silver from their orea, extracting, Pelatan & Clerici. 567.44 Grain binder bead board. J. Macphail 567.44 Grain binder bead board. J. Macphail 567.14 Graining tool. W. S. Turner. 667.52 Grindstene fixture. C. W. Pierce 567.52 Gindstene fixture. C. W. Pierce 567.52 Gunpowder. E. Dickson 567.53 Gunpowder. E. Dickson 567.53 Hammock supporting hook, I. E. Palmer 567.52 Hammock supporting hook, I. E. Palmer 567.52 Harrow. D. B. Smith. 567.33 Harrow. D. B. Smith. 567.34 Harvester, E. A. Peck 567.14 Hary knife, I. B. Beekly 567.36 Hay knife, I. B. Beekly 567.30 Heater. See Electric beater. 1600. See Hammock supporting hook. 1600	Garbage, etc., process of and apparatus for treat- ing, S. E. Wilson Garbage receptacle, K. Hirsch	567,210 567,390 567,364
Gas meter, coin freed, J Anderson. 587.44 Gate, See End gate. Railway gate. Gate, L. Clark. 567.52 Gate, J. W. Cottle. 567.52 Gate, J. W. Cottle. 567.52 Gate, J. W. Cottle. 567.22 Generator. See Alternating generator. Glass, means for working. H. Hilde. 567.23 Gale, J. W. Cottle. 567.23 Gold and silver from their orea, extracting, Pelatan & Clerici. 567.44 Grain binder bead board. J. Macphail 567.44 Grain binder bead board. J. Macphail 567.14 Graining tool. W. S. Turner. 667.52 Grindstene fixture. C. W. Pierce 567.52 Gindstene fixture. C. W. Pierce 567.52 Gunpowder. E. Dickson 567.53 Gunpowder. E. Dickson 567.53 Hammock supporting hook, I. E. Palmer 567.52 Hammock supporting hook, I. E. Palmer 567.52 Harrow. D. B. Smith. 567.33 Harrow. D. B. Smith. 567.34 Harvester, E. A. Peck 567.14 Hary knife, I. B. Beekly 567.36 Hay knife, I. B. Beekly 567.30 Heater. See Electric beater. 1600. See Hammock supporting hook. 1600	Garment supporter, R. W. Parramore	567,195 567,421 567,432
Gate, J. W. Cottle Gate, J. W. Cottle Gate, J. W. Cottle Gate, J. W. Cottle Gaterator. See Alternating generator. Glass, means for working, H. Hilde Gold and silver from their ores, extracting, Pelatan & Clerici Golfing appliance, D. Dalziel Grain binder bead board, J. Macphail Grain binder bead board, J. Macphail Graining tool. W. S. Turner Grindstone fixture, C. W. Pierce Grindstone fixture, C. W. Pierce Gunpowder, E. Dickson Guus, breeck closing mechanism for rapid fire, J. A. Deport Hammock supporting hook, I. E. Palmer 567,288 Harness, C. H. Kooper Harrow, D. B. Sumth 567,328 Harvester, E. A. Peck Hart, C. B. Haistead 567,329 Hat, C. B. Haistead 567,329 Hat, C. B. Haistead 567,329 Hat, C. B. Haistead 567,329 Haty knife I. B. Beekly 167,377 Hay press, A. McIntosh Hook See Hammock supporting hook Hook and eye, A. M. Weber Heoter, See Electric beater. Heddle, L. Knecht Hook See Hammock supporting hook Hook and eye, A. M. Weber Hoop. See Ple tin boop. Horseshoe calk, J. C. Higgins. 567,329 Huber See Almond huller. Humidifiers, bygroscopic regulator for, J. Wallace, device for grooving artificial, T. H. Flynn 567,321 Ice, device for grooving artificial, T. H. Flynn 567,321 Ice, device for grooving artificial, T. H. Flynn 567,321 Ice, device for grooving artificial, T. H. Flynn 567,321 Ice, device for grooving artificial, T. H. Flynn 567,321 Ice, device for grooving artificial, T. H. Flynn 567,321 Ice, device for grooving artificial, T. H. Flynn 567,321	Gas meter, coin freed, J Anderson	567.571 567.440
Golfing appliance D. Dalziel	Care 1 W Cottle	
Guns, breech closing mechanism for rapid fire, J. A. Deport. 567.22 Hammeck supporting hook, I. E. Palmer. 567.22 Harnesc, C. H. Kooper. 567.24 Harrow. D. B. Smth. 567.32 Harvester, E. A. Peck. 567.19 Hat, C. B. Haistead 567.32 Hat rack. J. N. & H. Rohr. 567.16 Hay knife, I. B. Beekly 567.16 Hay knife, I. B. Beekly 567.40 Heater. See Electric beater. 567.40 Heodie, L. Knecht. 567.40 Hook. See Hammock supporting hook. 567.52 Hook and eye, A. M. Weber. 567.52 Hoop. See Ple tin boop. 567.52 Hoop. See Ple tin boop. 567.52 Hub. vehicle, J. W. Huchanan 567.29 Hubler from tubular blanks, apparatus for making wheel, Warman & Winter. 567.39 Huller See Almond buller. 190. 100. 100. 100. 100. 100. 100. 100	Gold and silver from their ores, extracting, Pelatan & Clerici Golfing appliance, D. Dalziel Grain Manday beard 1. Magnetil	567,503 567,455
Harrow D. B. Smth	Graining tool. W. S. Turner. Grindstone fixture, C. W. Pierce. Gunpowder, E. Dickson.	567,523 567,536 567,536
Hat rack. J. N. & H. Robr. Hay knife I. B. Beekly 557,37 Hay press, A. McIntosh 657,40 Heater See Electric beater. Heddle, L. Knecht. Heddle, L. Knecht. Hook. See Hammock supporting hook. Hook and eye A. M. Weber 567,52 Hoop See Ple in boop. Horseshoe calk, J. C. Higgins. 567,13 Hub. vehicle, J. W. Buchanan 67,23 Hub. vehicle, J. W. Buchanan 67,32 Huber from tubular blanks, apparatus for making wheel, Warman & Winter. Humiditiers, bygroscopic regulator for, J. Wallack. Inc. apparatus for planing cakes of, J. N. Briggs (reissue). Ice, device for grooving artificial, T. H. Flynn. 577,53 11,507 12,507 13,507 14,507 15,507 16,507 16,507 16,507 16,507 16,507 17,507 18,507	A. Deport Hammock supporting hook, I. E. Palmer Barness, C. H. Kooper	567,224 567,280 567,244
Hay knife, I. B. Beekly Hay press. A. McIntosh Heater. See Electric beater. Heddle, L. Knecht. Heddle, L. Knecht. Hook See Hammock supporting hook. Hook and eye, A. M. Weber. Hoop. See Ple tin boop. Horseshoe calk, J. C. Higgins. Hub. vehicle, J. W. Bucbanan Hubs from tubular blanks, apparatus for making wheel, Warman & Winter. Humidifiers, hygroscopic regulator for, J. Wallace. Le, apparatus for planing cakes of, J. N. Briggs (relssue) (relssue) (relssue) 11,66 12,37 13,57	Harrow. D. B. Smith Harvester, E. A. Peck Hat, C. B. Halstead Hat reck J. N. & H. Bohr	567,321 567,196 567,234
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Horseshoe calk, J. C. Higgins. 567,138 Hub. vehicle, J. W. Huchanan 567,29 Hubs from tubular blanks, apparatus for making wheel, Warman & Winter. 567,329 Huller. See Almond buller. Humidiflers, hygroscopic regulator for, J. Wal- lace, apparatus for planing cakes of, J. N. Briggs (relssue) Ice, device for grooving artificial, T. H. Flynn. 577,538 11,667 12,91	Hook. See Hammock supporting hook. Hook and eye, A. M. Weber	567,528
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Ice scraper, J. F. Lucas 567,311	Too company for standard colors of T. N. Daigner	0011100
Incandescent light, L. V. Thomas	(reissue). lee, device for grooving artificial, T. H. Flynn lee scraper, J. F. Lucas.	11,566 567,538 567,318
Insulated rail joint, Scofield & Wayland	Incandescent light, L. V. Thomas	567,558 567,558 567,383 567,192
	Insulated rail joint, Scofield & Wayland	567,416 567,502