Apparatus for Special Purposes. AMMONIA-WATER APPARATUS .--- H. A. ABENDROTH, Berlin, Germany. This invention relates to evaporation and condensation; and its object is to provide certain improvements in amomnia-water whereby the overflow-pipes for the water can be readily removed from the cells for cleaning and other purposes and without requiring interruption of the process or unduly reducing the strength of the walls of the cells.

Of Interest to Farmers,

FERTILIZER-DISTRIBUTER.-J. C. SPARKS, Mechanicsville, S. C. In this patent the invention is an improvement in fertilizerdistributers, having for an object to provide a novel construction which can be applied to an ordinary plow-beam, can be set in any desired adjustment on said beam, and will efficiently serve the purpose for which it is designed.

Of General Interest.

SUSPENDER ATTACHMENT .--- L. Selike-WITZ, New York, N. Y. The attachment comprises a friction plate with means for attachment to one end of the suspender, said plate being provided with a hinged bar. The plate and bar are constructed with co-operating clamping members for securely holding in place a pull device constituting the medium by which the sliding movements of the adjusting device are effected for the purpose of altering the length of the suspender member.

Hardware.

REGISTERING-LOCK .- J. G. RAMEY, Rome, Ga. A lock constructed according to this invention has merit over all similar locks in the construction involved, as well as the simplicity of its working parts, which are not so liable to get out of order. It has utility or usefulness in recording its unlocking and the registering of the number of times it has been worked or unlocked.

WIRE-STRETCHER.-O. C. A. SCHWIEN, Davenport, Iowa. This improvement is in that class of stretchers whose main feature is a lever having a curved portion adapted to engage or partly embrace a fixed post and provided with a wire-grip, which is located at a point between the post and the handle end of the lever. A flexible tension device, preferably a chain, is employed, it being connected with the portion of the lever applied to the post and adapted for ready attachment and detachment, so that the apparatus as a whole may be quickly applied to and removed from the post.

Heating and Lighting.

FURNACE .--- G. S. KENT, Lyndon, Vt. The aim of the improvement is to provide a furnace of economic construction capable of utilizing all the products of combustion to a maximum extent, in which furnace a continuous combustion-chamber is provided and two fuel-chambers in communication with the combustion-chamber, together with means for admitting air and steam to the combustionchamber and for the admission of stoking-tools to the fuel-chambers.

Machines and Mechanical Devices.

HOIST.-S. T. WALLACE, Los Angeles, Cal. This hoist is intended especially for use in the construction of buildings to hoist building materials from one floor to another. The hoist lies outside of the building, being erected on the sidewalk immediately in front of the structure where it will occupy very little space. The arrangement of the hoist is such that it will elevate beams of a length too great for elevation through the interior of the building.

MACHINE FOR FORMING CURRY KNIFE EDGES ON ROTARY CUTTERS .- E. SCHROEDER, New York, N. Y. The object of the improvement is to provide a machine more especially designed for accurately forming an annular curry-knife edge on a circular cuttersuch, for instance, as is used in a fleshing and shaving machine for raw and dressed furs or skins, for which former Letters Patent were granted this inventor. The present invention is a division of the application for Letters Patent of the United States for a machine for grinding and forming cutter edges, formerly

Business and Personal Wants.

READ THIS COLUMN CAREFULLY.--You will find inquiries for certain classes of articles numbered in consecutive order. If you manu-facture these goods write us at once and we will send you the name and address of the party desir-ing the information. In every case it is neces-sary to give the number of the inquiry.

MUNN & CO.

Marine Iron Works. Chicago. Catalogue free.

Inquiry No. 6051. For the manufacturer of a clip or hand used in construction of brick walls, called the "Don't Clip Brick Band," patented July 7, 196.

AUTOS .- Duryea Power Co., Reading, Pa

Inquiry No. 6082.-For makers of apparatus, etc., for fitting up corn mills.

"U. S." Metal Polish. Indianapolis. Samples free.

Inquiry No. 6083.-For a small, triple-expansion marine engine, developing about 25 h. p. on 200 pounds of steam at about 700 r. p m. Perforated Metals, Harrington & King Perforating

Co., Chicago. Inquiry No. 6084.-For the manufacturers of the 'Kleen U Rite."

Handle & Spoke Mchy. Ober Mfg. Co., 10 Bell St.,

Chagrin Falls, O. Inquiry No. 6085.—For dealers in peat for use as fuel.

If it is a paper tube we can supply it. Textile Tube

Company, Fall River, Mass. Inquiry No. 6086.-Wanted, a gasoline motor of 4 to 6 h. p., for plowing purposes.

Sawmill machinery and outfits manufactured by the Lane Mfg. Co., Box 13, Montpelier, Vt.

Inquiry No. 6087.—For the latest and best appli-ances for a crematory.

D. A. Beaton, Practical Lead Burner, P. O. Box 334 Woburn, Mass. Fifteen years' experience

Inquiry No. 6088.—For makers of blank name checks on which to stamp names, addresses and em-blems, also of stamps with which to stamp them. MICROSCOPE.-\$15; cost. \$35. Also valuable acces-

sories separate. List. J. Phin, Paterson, N. J.

Inquiry No. 6059.—For makers of round glass covers 6 inches diameter by 8 inches high.

& Hamburger, Equitable Building, Berlin, Germany. Inquiry No. 6090.—For dealers in second-hand electric instruments and machinery.

Agents wanted to sell the Ryede puzzle. Sample by | Inquiry No. 6091.-For a machine for printing on toothorush handles.

In buying or selling patents money may be saved and time gained by writing Chas. A. Scott, 719 Mutual Life Building, Buffalo, New York.

Inquiry No. 6092.-For machinery for peeling, cracking, cleaning and bleaching walnuts.

We manufacture anything in metal. Patented articles, metal stamping, dies, screw mach. work, etc. Metal Novelty Works, 43 Canal Street, Chicago.

Inquiry No. 6093.--For outfits and supplies for confectioners, bakers, etc. Patented inventions of brass, bronze, composition or

aluminum construction placed on market. Write to American Brass Foundry Co., Hyde Park, Mass.

Inquiry No. 6094.—For manufacturers of broom-making machinery. The celebrated "Hornsby-Akroyd" Patent Safety Oil Engine is built by the De La Vergne Machine Company

Foot of East 138th Street, New York.

Inquiry No. 6095.-For manufacturers of wood and metal lathes, saws, doils, work benches, etc., for manual training school. WANTED .- Experienced office man who will invest

\$15,000 in a well-established manufacturing company in Central Indiana. Investment, Box 773, N. Y.

Inquiry No. 6096.—For builders of steam engines for automobiles, or makers of steam automobiles. Want manufacturer to buy pat. No. 760,280 elect. water

heater. Boils pint of water in 1 minute. Sample with attachment plug, \$1.25. Richard Toennes, Box 344, Boonville, Mo.

Inquiry No. 6097.—For manufacturers of machinery for excelsion plants.

Manufacturers of patent articles, dies, metal stamp-



Names and Address must accompany all letters or no attention will be paid thereto. This is for our information and not for publication. References to former articles or answers should give date of paper and page or number of question. Inquiries not answered in reasonable time should be

Minerals sent for examination should be distinctly marked or labeled.

(9469) C. R. W. asks: Can you give me any information on the computation of time as we now have it-months, weeks, days, hours, minutes, and seconds? When did this computation begin or come into use, and what INDEX OF INVENTIONS preceded that computation, and so on as far back as we have any history on this subject? A. There is not so much exact data as one might expect regarding the time of the introduction of the different units of time we now employ. Probably many of them came into use gradually and without any official determination, just because they were convenient AND EACH BEARING THAT DATE and serviceable. The year was naturally con-nected with the seasons, and has been kept [See note at end of list about copies of these patents.] with the seasons by most nations. It is more essential that it should begin at about the same time with reference to seed time and harvest American inventions negotiated in Europe. Wenzel than that it should be invariable in length. Thus our years are not of the same length. The month was also a natural epoch, in the earliest times, dating from the phases of the mail for 10c. Rycele Specialty Works, Rochester, N. Y. moon. While the day has always been a natural unit of time, the time of its beginning and its division into parts have varied greatly. This is discussed in answer to Query 8744, Vol. 87, No. 19. Our calendar, the Julian, dates from 45 A.D., and its reformation by Pope Gregory in 1582 A.D., while its adoption by England was in 1752 A.D. All that is known on these points may be had from encyclopedias.

(9470) W. L. asks: Will you kindly advise me whether the current in Western Union telegraph wires would interfere with the working of a ground circuit telephone line on the same poles, and if so, what could be done to equalize the current, or as a remedy? A. A telephone line is liable to disturbance from any unsteady electric current in its neighborhood, if a ground return is employed. The remedy is to use a metallic circuit, with the wires twisted, as is done in cities. The effect of induction is thus done away with.

(9471) C. H. W. asks: What would Bott be the result of an electro-magnet which is capable of lifting ten times more than its own weight, and a piece of metal that weighs say eight or ten times as much as the magnet, say iron, be both placed on a level ${\bf s}{\it urface}$ about one-half foot or a foot apart, with nothing Brak to hold either stationary, and then turn on the current? What would be the result? Would the magnet go to the metal, or would the metal go to the magnet? A. If a magnet Manufacturers of patent articles, dies, metal stamp-ing, screw machine work, hardware specialties, machin-ery and tools. Quadriga Manufacturing Company, 18 south Canal Street. Chicago. Inquiry No. 6098.-For makers of compressed paper, to be used as a substitute for leather. PATENTS FOR SALE-Cantwell & Co., patent agents, Culcutta, India, has now for sale several valuable patents, principally for railway improvements. Full patents, principally for railway improvements. Full second-hand gaseline launches, 30 to 55 feet long. Inventor wants prominent business man as partner to finance some series of first-class mrentions: A uto, partents from which is fixed on the wand and a coin is fired by asmall ca.non. For SALE-Canadian patent No. 83,857. dated Nov. Limestone, New York. Limestone, New York. Limestone, New York.

October 22, 1904.

that the science, as it now stands, has been aptly termed the " new seismology." This modernized science investigates its phenomena by means of instruments that measure force and motions, speeds and accelerations. For that reason it may well be considered a branch of physics, a branch moreover that treats of elasticity and wave motion in a solid medium, the earth. Chapter I. of this book sets forth the nature of the earthquake according to modern concepts. Chapter II. is devoted to a general discussion of the causes of earthdate of paper and page of numerical pag accresses of houses manufacturing or carrying the same. Special Written Information on matters of personal rather than general interest cannot be expected Without remuneration. Scientific American Supplements referred to may be bad at the office. Price 10 cents each. Books referred to promptly supplied on receipt of price. Nincerel control of the supplied on receipt of Nincerel control of the supplied on receipt of Nincerel control of the supplied on receipt of the supplied on receipt of Nincerel control of the supplied on receipt of the supplied on recei of computing the depth and origin of an earthquake. The final chapter is devoted to the discussion of seaquakes, a subject which has been investigated with great diligence by Dr. Emil Rudolph, of Strasburg.

> For which Letters Patent of the United States were Issued for the Week Ending

> > October 11, 1904

Abdominal supporter and truss, B. F. Lacy 772,105 Accounts, means adapted to facilitate the recording and rendering of, C. L. Hag-

gard	772.036
gard Acid, making hydroxy stearic, W. M. Burton Air brake attachment, D. M. Elder	772,129
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Air compressor S E Allor	772.266
All compressor, S. E. Aney	112,200
Air compressor, S. E. Alley Alkali salts from isoluble combinations, making and separating, H. S. Blackmore	
making and separating, H. S. Blackmore	772,206
Alkaline processes, apparatus for mercurial.	
Roepper & Harmon Applicator, X. Pene Artist's sketching box, J. Meyers	771,833
Applicator, X. Pene	772,176
Artist's sketching box J Mevers	771,995
Automatic switch, C. H. Stanley Badge and pencil holder, combined, J. A.	772.066
Bodge and pencil holder combined T A	
Manuald	
Mangold	772,046
Baling press, L. Blount	771,967
Ball mill, tubular, M. F. Abbe	772,077
Bath trap cap and pipe, H. J. Luff	772,162
Baling press, L. Blount Ball mill, tubular, M. F. Abbe Bath trap cap and pipe, H. J. Luff Batteries, lead containing cell for secondary,	
V. G. Apple Bedstead, W. E. Collier	772,123
Bedstead, W. E. Collier	771,811
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Deet topper and filter, G. L. Hayes	112,091
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Bicycle handle bar, B. H. Sills	771,841
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 Blacking and polisbing machines, gear- mechanism for boot and shoe, F. A. Curtis Blind, balances roller, F. J. Watkinson Block. See Printer's block. 	771,861 772,3●●
 Blacking and polisbing machines, gear- mechanism for boot and shoe, F. A. Curtis Blind, balances roller, F. J. Watkinson Block. See Printer's block. 	771,861
 Blacking and polisbing machines, gear- mechanism for boot and shoe, F. A. Curtis Blind, balanced roller, F. J. Watkinson Block. See Frinter's block. Block machine, plastic, J. W. Wilson Block signal and safety system, electric 	771,861 772,3 00 772,319
 Blacking and polisbing machines, gear- mechanism for boot and shoe, F. A. Curtis Blind, balancea roller, F. J. Watkinson Block. See Printer's block. Block machine, plastic, J. W. Wilson Block signal and safety system, electric automatic, G. P. Finigan 	771,861 772,3 00 772,319 772,278
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 Blacking and polisbing machines, gearmechanism for boot and shoe, F. A. Curtis Blind, balanced roller, F. J. Watkinson Block. See Printer's block. Block machine, plastic, J. W. Wilson Block signal and safety system, electric automatic, G. P. Finnigan Boitler, E. G. Rust Bottle stopper, O. Adams Bottles or other vessels with liquids, apparatus for filing, F. J. Fletcher 	771,861 772,300 772,319 772,278 772,297 772,250 771,960 772,033
 Blacking and polishing machines, gear- mechanism for boot and shoe, F. A. Curtis Blind, balanced roller, F. J. Watkinson Block. See Frinter's block. Block machine, plastic, J. W. Wilson Block signal and safety system, electric automatic, G. P. Finnigan Boitle closure or the like, C. E. McManus Bottle stopper, O. Adams Bottle stor vessels with liquids, apparatus for filling, F. J. Fletcher Bottling apparatus, O. Yogel 	771,861 772,300 772,319 772,278 772,297 772,250 771,960
 Blacking and polishing machines, gearmechanism for boot and shoe, F. A. Curtis Blind, balanced roller, F. J. Watkinson Block. See Frinter's block. Block machine, plastic, J. W. Wilson Block signal and safety system, electric automatic, G. P. Finnigan Boitler, E. G. Rust Bottle closure or the like, C. E. McManus Bottle stopper, O. Adams Bottles or other vessels with liquids, apparatus for filling, F. J. Fletcher Bottling apparatus, O. Vogel Bowling alley pins, apparatus for setting. 	771,861 772,300 772,319 772,278 772,297 772,250 771,960 772,033
 Blacking and polishing machines, gearmechanism for boot and shoe, F. A. Curtis Blind, balanced roller, F. J. Watkinson Block. See Frinter's block. Block machine, plastic, J. W. Wilson Block signal and safety system, electric automatic, G. P. Finnigan Boitler, E. G. Rust Bottle closure or the like, C. E. McManus Bottle stopper, O. Adams Bottles or other vessels with liquids, apparatus for filling, F. J. Fletcher Bottling apparatus, O. Vogel Bowling alley pins, apparatus for setting. 	771,861 772,300 772,319 772,278 772,297 772,250 771,960 772,033 772,195
 Blacking and polishing machines, gearmechanism for boot and shoe, F. A. Curtis Blind, balanced roller, F. J. Watkinson Block. See Frinter's block. Block machine, plastic, J. W. Wilson Block signal and safety system, electric automatic, G. P. Finnigan Boiler, E. G. Rust Bottle closure or the like, C. E. McManus Bottle stopper, A. Adams Bottle stor or ther vessels with liquids, apparatus for filling, F. J. Fletcher Bottling apparatus, O. Vogel Bottling alper pins, apparatus for setting, J. C. Backus 	771,861 772,300 772,319 772,278 772,297 772,297 772,297 772,297 772,033 772,195 771,963
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 Blacking and polishing machines, gearmechanism for boot and shoe, F. A. Curtis	771,861 772,300 772,319 772,278 772,297 772,250 771,960 772,195 771,963 771,825 771,825 772,212 771,976
 Blacking and polishing machines, gearmechanism for boot and shoe, F. A. Curtis. Bünd, balanced roller, F. J. Watkinson Block. See Frinter's block. Block machine, plastic, J. W. Wilson Block signal and safety system, electric automatic, G. P. Finnigan Boiler, E. G. Rust Bottle closure or the like, C. E. McManus. Bottle stopper, O. Adams Bottles or other vessels with liquids, apparatus for filling, F. J. Fletcher Bottling alperatus, O. Vogel Bottling alper pins, apparatus for setting, J. C. Backus Borachine, E. A. Jordan Bracke, J. A. Field Brake, J. A. Field 	771,861 772,300 772,319 772,278 772,297 772,297 772,250 771,960 772,195 771,963 771,963 771,963 771,825 772,212
 Blacking and polishing machines, gearmechanism for boot and shoe, F. A. Curtis. Bünd, balanced roller, F. J. Watkinson Block. See Frinter's block. Block machine, plastic, J. W. Wilson Block signal and safety system, electric automatic, G. P. Finnigan Boiler, E. G. Rust Bottle closure or the like, C. E. McManus. Bottle stopper, O. Adams Bottles or other vessels with liquids, apparatus for filling, F. J. Fletcher Bottling alperatus, O. Vogel Bottling alper pins, apparatus for setting, J. C. Backus Borachine, E. A. Jordan Bracke, J. A. Field Brake, J. A. Field 	771,861 772,300 772,278 772,297 772,297 772,297 772,290 772,900 772,003 771,960 771,963 771,963 771,975 771,976 772,217
 Blacking and polishing machines, gearmechanism for boot and shoe, F. A. Curtis. Bünd, balanced roller, F. J. Watkinson Block. See Frinter's block. Block machine, plastic, J. W. Wilson Block signal and safety system, electric automatic, G. P. Finnigan Boiler, E. G. Rust Bottle closure or the like, C. E. McManus. Bottle stopper, O. Adams Bottles or other vessels with liquids, apparatus for filling, F. J. Fletcher Bottling alperatus, O. Vogel Bottling alper pins, apparatus for setting, J. C. Backus Borachine, E. A. Jordan Bracke, J. A. Field Brake, J. A. Field 	771,861 772,300 772,319 772,278 772,297 772,250 771,960 772,195 771,963 771,825 771,825 772,212 771,976
 Blacking and polishing machines, gearmechanism for boot and shoe, F. A. Curtis Blind, balanced roller, F. J. Watkinson Block See Frinter's block. Block machine, plastic, J. W. Wilson Block signal and safety system, electric automatic, G. P. Finnigan Boiler, E. G. Rust Bottle stopper, O. Adams Bottle stopper, O. Adams Bottlig apparatus, O. Yogel Bottling apparatus, O. Yogel Bottling apparatus, O. Yogel Bor machine, E. A. Jordan Bracket, Campbell & Williams Brake shoe, vehicle, W. W. Morton Brake shoe, vehicle, W. W. Morton Brakes, pressure, F. Mertsheimer Branning and polishing machine, combined, 	771,861 772,300 772,278 772,297 772,297 772,290 771,960 771,960 771,963 771,963 771,963 771,972,212 771,976 772,212 771,976 772,167
 Blacking and polishing machines, gearmechanism for boot and shoe, F. A. Curtis	771,861 772,300 772,319 772,250 772,250 771,960 771,963 771,963 771,963 771,963 772,157 772,971 771,975 772,971 771,976 772,167 772,167
 Blacking and polishing machines, gearmechanism for boot and shoe, F. A. Curtis Bund, balanced roller, F. J. Watkinson Block. See Frinter's block. Block machine, plastic, J. W. Wilson Block signal and safety system, electric automatic, G. P. Finnigan Boiler, E. G. Rust Bottle closure or the like, C. E. McManus Bottle stopper, A. Adams Bottle stopper, A. Adams Bottling apparatus, O. Vogel Bowling alley pins, apparatus for setting, J. C. Backus Bracke, J. A. Field Brake, J. A. Field Brake, pressure retaining machine, combined, T. M. Williams Branke, J. M. Field, Starts, C. M. Morton Brake, J. A. Field Brake, J. M. Field, M. Morton Brake, J. M. Williams Brake, J. M. Field Brake, J. M. Field, J. Thomson 	771,861 772,300 772,278 772,297 772,297 772,290 771,960 771,960 771,963 771,963 771,963 771,972,212 771,976 772,212 771,976 772,167
 Blacking and polishing machines, gearmechanism for boot and shoe, F. A. Curtis	771,861 772,300 772,319 772,250 772,250 771,960 771,963 771,963 771,963 771,963 772,157 772,971 771,975 772,971 771,976 772,167 772,167

lied by Mr. Schroeder.	Limestone, New York.	Price, \$2.50.	Car end gate opening device, mine, Ault
	1	The present is the first volume of this work	& Reed
	without heads, to be used in the manufacture of farm	which has been greatly enlarged in this, the third	Car underframe, passenger, C. S. Gawthrop 772,141
Designs,	machinery.	edition. Volume I. treats of the materials and	Carborundum article, self bonded, F. J. Tone 772,262 Carbureter for gasoline engines, G. Kingston 771,985
HAMMOCK CLOTH D. W. SHOYER, New	Winona, MinnesotaPopulation, 24,000-Wants Man-	processes of gas manufacture. All the materials	Carrier. See Cuspider carrier.
York, N. Y. The design consists of a central	ufacturing Plants. For particulars address Geo. W.	and methods of producing coal, water, oil, and	Wyman
nitial letter surrounded by scrolls and flower	Gregory, Secretary of Board of Trade	air gas, and of enriching gas of low illumin-	Cattle guard, W. R. Scott 771,838
ornaments which are artistically arranged.	Inquiry No. 6102-For manufacturers of solder-	ating power, as well as the methods of pro-	Center fire balance engine, R. A. Morton 772,109 Chain, extensible, E. C. Gipe 771,873
DESIGN FOR A CHAPLET OR SHRINE	ing iron for aluminium.	ducing simple gaseous hydrocarbons, are ther-	Chain wrench, G. J. Meyer 771,915
OF THE HOLY ROSARYC. GAY, New	Wanted-Revolutionary Documents, Autograph Let-	oughly described. The production of acety-	Check holder and match plate, combined,
Haven, Conn. This is a design in which the	ters, Journals, Prints, Washington Portraits, Early	lene was treated in a separate book written in	M. J. Bevans
igure is a perspective view of the chaplet or	American illustrated Magazines, Early Patents signed	collaboration with Mr. F. H. Lee, and which	Chin supporter S N Hiser
shrine of the Holy Rosary. Around a promi-	by itestactions of the United States, valentifies	has been recently published. The second vol-	Cigarette tins, machine for applying, R.
nent crucifix and two small crosses, are in-	manuals of the carly tost correspon care sonoteet.	ume of the work, which is now in course of	Gabrielsky
scribed St. Dominic's Chaplet of the Holy Ros-	Inquiry No. 6103.—For a freezing apparatus for	preparation, will cover the testing and use of	Circuit closer, automatic, H. G. Pape 772,291 Cisterns, extensible dome for cement, S.
ary. The face of the ornamental design is ob-		gas.	L Dunlap
long, square at the bottom and round at the		EARTHQUAKES IN THE LIGHT OF THE NEW	Clip, B. M. Stanpard
top. A square in the center is surrounded by	and other Books for sale by Munn & Co., 361 Broadway,	SEISMOLOGY. By Major Clarence Ed-	Clock, eight day alarm, J. Matzinger 772,165
a chain looped at the lower part.	New York. Free on application.	ward Dutton. London: John Mur-	Cleck, electric, T. A. Schlueter
	Inquiry No. 6104For manufacturers of screw machines, monitor lathes and drill presses.	ray. New York; G. P. Putnam's	Clover hulling machine, A. Poirier 771,885
NOTE.—Copies of any of these patents will		Sons, 1904. 12mo.; pp. 314.	Clutch, D. A. Murphy
be furnished by Munn & Co. for ten cents each.	(Southannin wanted by young German with commercia-	α_1 α_2 α_3 α_4 α_5 α_4 α_5 α_6	Cock, stop, W. Theis 772,007
	l experience, having studied engineering in Berlin, want-	a a a a a a a a a a a a bank thinty woong	Con whathg machine, J. J. Frank (11,002
the invention, and date of this paper.	ing a start. G. K., Box 773, N.Y.	Marco developed daring the more salely yearsy	Coin collector, F. R. McBerty 771,920