

Kiln pop valve, L. Moore.....	\$35,572
Kneading machine, C. Fleck.....	\$35,310
Ladder, extension fire, Lavoie & Chazotte.....	\$35,440
Ladder book, C. H. Grant.....	\$35,721
Lamp, acetylene, F. L. White.....	\$35,366
Lamp, electric arc, D. Higbam.....	\$35,545
Lamp, electric arc, F. S. Worsley.....	\$35,529
Lamp, electric incandescent, W. J. Phelps.....	\$35,447
Lamp, flash light, G. H. Miller.....	\$35,367
Lamp, gasoline, Wood & Eddy.....	\$35,456
Lamp hanger, arc, McCormac & Laphorne.....	\$35,699
Latch, gate, W. I. Tripp.....	\$35,383
Lawn sprinkler, F. W. Monroe.....	\$35,357
Letter box register, J. N. Clause.....	\$35,428
Letter opener, H. Moskham.....	\$35,495
Level, plumb, K. Martin.....	\$35,584
Life preserver, E. Kunert.....	\$35,439
Linotype and mould therefor, G. A. Bates.....	\$35,640
Linotype casting machine, H. J. Derbyshire.....	\$35,305
Liquids, closing device for receptacles having capillary openings for transport, storage, and use of volatile, R. Zimmermann.....	\$35,631
Lock. See Binder lock. Combination lock. Permutation lock. Sash lock.	
Locomotive, E. Sarver.....	\$35,600
Locomotive engine exhaust relief, C. J. Mellin.....	\$35,656
Loom filling carrier, C. M. Day.....	\$35,716
Looms, electrical warp stop motion for, Baker & Kib.....	\$35,637
Lubricant, F. T. Cook.....	\$35,303
Lubricator. See Axle lubricator.	
Lung tester, coin controlled, R. S. Steinfeld.....	\$35,607
Match case and cigar tip cutter, automatic, R. C. Hoyer.....	\$35,484
Measuring bolts of cloth, device for, R. F. Livermore.....	\$35,492
Measuring meters, recording mechanism for fluid, I. C. Reed.....	\$35,594
Mechanical motor, C. Clawson.....	\$35,425
Medicinal product, G. Fuchs.....	\$35,471
Meter prepayment attachment, C. Luke.....	\$35,730
Mill. See Rolling mill.	
Mining in frozen earth, apparatus for, J. E. Stuart.....	\$35,522
Motor. See Mechanical motor.	
Mowing machine cutting bar, J. B. Hill.....	\$35,321
Musical instrument, E. Gable.....	\$35,312
Nailing machine, box, L. F. Grammes.....	\$35,540
Necktie holder, A. C. Crutwell.....	\$35,371
Nippers, W. A. Bernard.....	\$35,417
Nut lock, E. Smith.....	\$35,519
Nut lock, R. Titus.....	\$35,361
Oculist's testing frame, E. B. Meyrowitz.....	\$35,443
Oil box, H. N. Covell.....	\$35,665
Oil cup closure, G. W. & W. J. Emerick.....	\$35,717
Oiling device, piston rod, G. H. Merritt.....	\$35,354
Oiling device, rock drill, R. L. Ambrose.....	\$35,298
Operating mechanism, W. G. Dodd.....	\$35,372
Optician's testing frame, Meyrowitz & Buchhop.....	\$35,444
Ore roaster, C. D. Bouton et al.....	\$35,418
Ores, chemically preparing and treating rebellious, C. Martin.....	\$35,695
Pan for candlery, W. E. Hendricks.....	\$35,320
Paper and paper materials, machine for pulping up, C. Wurster.....	\$35,412
Paper feeding machine, W. G. Trevette.....	\$35,616
Paper making machines, shaking section of Four-drier, T. H. Savery.....	\$35,511
Paper pulp refining engine, E. R. Marshall.....	\$35,533
Paper vessel, J. G. Reber.....	\$35,349
Pen, fountain, G. S. Parker.....	\$35,700
Pencil, A. J. Keck.....	\$35,688
Permutation lock, R. W. Inglis.....	\$35,549
Photographic objective, Goetz & Von Hoegh.....	\$35,472
Photographic purposes, three-lens system for, Goetz & Von Hoegh.....	\$35,473
Pianoforte and mechanical music work, combined, F. W. Ofsky.....	\$35,387
Pin. See Scarf pin.	
Pipe coupling, C. A. Bailey.....	\$35,636
Pipe drainage and venting fitting, combination soil, F. Walker.....	\$35,619
Pipe joint for hollow revolving journals, T. H. Savery.....	\$35,512
Pipe service box, service, J. O. A. Laforest.....	\$35,328
Plaiter, L. J. Bard.....	\$35,459
Planter, check row, J. D. Dawson.....	\$35,715
Planter, corn, F. C. Harwood et al.....	\$35,541
Planter, corn, G. R. Hollis.....	\$35,323
Planter, corn, F. K. Latbrop.....	\$35,490
Planter, corn, P. E. Obrink.....	\$35,342
Planter, peanut, J. R. Ayers.....	\$35,635
Planter, potato, H. Haid.....	\$35,479
Platform. See Extension platform.	
Plow, F. H. Dawes.....	\$35,671
Plow attachment, B. L. Pool.....	\$35,388
Plow cotton chopping attachment, T. J. Lee.....	\$35,491
Plow, disk, G. M. Clark.....	\$35,712
Plow, drain ditching, N. L. Gobeille.....	\$35,315
Plow or cultivator attachment, wheeled, J. C. Fullerton.....	\$35,536
Pneumatic dispatch tube systems, terminal for, E. A. Fordyce.....	\$35,434
Pneumatic self playing instrument, C. S. Batdorf.....	\$35,416
Pocket holder, M. W. Reever.....	\$35,448
Pole or thill coupling, R. F. Cornell.....	\$35,428
Post. See Spring supported post.	
Potato grading machine, C. B. Speaks.....	\$35,406
Press. See Hay press.	
Pressure gage, P. Swenson.....	\$35,523
Printing apparatus, B. A. Brooks.....	\$35,649
Printing machine, N. Kopp.....	\$35,326
Printing press folding and delivery mechanism, J. L. Firm.....	\$35,719
Prism light frame, P. E. McIntosh.....	\$35,576
Prison door, operating and locking device, C. Schoenfeld.....	\$35,602
Projectiles, etc., apparatus for arranging, P. Pondorf.....	\$35,588
Protective or guard appliance, E. Frischmuth.....	\$35,470
Pulverizing coffee, etc., machine for, L. Fritz.....	\$35,436
Pump, F. Edwards.....	\$35,531
Pump, hydraulic air, G. J. Hartermann.....	\$35,478
Pump, oil, C. F. W. Manzel.....	\$35,694
Pump, portable air, A. B. Diss.....	\$35,474
Pump, vacuum, E. F. Dwyer.....	\$35,375
Pumping apparatus, S. V. Rebart.....	\$35,590
Pumping rig, oil well, E. D. Yates.....	\$35,630
Puzzle, A. A. Libby.....	\$35,528
Rack. See Display rack.	
Rack for penholders, etc., J. Adair.....	\$35,281
Rails, process of and machine for renewing steel, E. W. McKenna.....	\$35,577
Railway, C. D. Bennett.....	\$35,524
Railway cattle guard, S. A. Gilbert.....	\$35,413
Railway switch operating wires and conduits, support for, F. J. Schmeiser.....	\$35,353
Railway tie and rail fastener, metallic, L. W. Gereckey.....	\$35,538
Raisin seeding machine, N. R. Converse.....	\$35,713
Rake. See Hay rake.	
Ramie dehydrating machine, W. N. Packer.....	\$35,345
Refrigerating apparatus, Lyon & Tabot-Crosbie.....	\$35,560
Refrigerator, keg, A. Grap.....	\$35,474
Register. See Letter box register.	
Resistance, W. Leonard.....	\$35,441
Ring. See Curtain ring. Finger ring.	
Roaster. See Ore roaster.	
Rock drill, Conrad & Ambrose.....	\$35,301
Roller. See Grain roller.	
Rolling mill, H. Grey.....	\$35,381
Root cutter, O. E. Thompson.....	\$35,450
Rotary steam engine, F. Kruger.....	\$35,538
Rubber tired wheel, R. Mulbolland.....	\$35,385
Safe, P. M. Crawford.....	\$35,608
Safe, G. L. Damon.....	\$35,668
Safe, screw door, C. E. Biebschmidt.....	\$35,291
Sand band, W. A. Fddy.....	\$35,467
Sash balance, window, J. M. Malloy.....	\$35,332
Sash holder, O. H. Myrick.....	\$35,339
Sash lock, C. E. Stone.....	\$35,449
Sash, slidable and swinging window, B. Hausmann.....	\$35,437
Saw circular, Rowe & Trunnel.....	\$35,369
Saw filing device, S. P. Gudmundson.....	\$35,520
Scale, spring, W. F. Stimpson.....	\$35,427
Scarf pin, D. R. Corbin.....	\$35,472
School seat and desk, S. W. Peregrine.....	\$35,584
Scourer. See Grain scourer.	
Scrapper and roller, combined road, G. W. Miller.....	\$35,334
Screw, J. W. Gaudin.....	\$35,297
Screw thread forming tap, R. Kilburn.....	\$35,324
Seaming sheet metal vessels, J. A. Steward.....	\$35,608
Seat. See School seat.	
Seat post fastening, J. C. Hyman.....	\$35,548
Seeder and planter, T. E. Hoffman.....	\$35,483
Sewing machine, hemstitch, J. M. Ramon.....	\$35,673
Sewing machine platter, J. Douglas.....	\$35,476
Shears, J. Randall.....	\$35,457
Shuttle, Gilbert & Widerstrom.....	\$35,720
Skirt and waist supporter, combined, W. C. Crevelink.....	\$35,370
Smelting furnace, H. G. Gowan.....	\$35,652
Soap holder and distributor, J. M. Ramon.....	\$35,592
Spanner, C. & H. Marschutz.....	\$35,562
Spindle, T. W. Cocker.....	\$35,660
Spinning frames, etc., roping guide for, N. G. Hufsticker.....	\$35,686
Spring support post, E. Andrew.....	\$35,709
Sprinkler. See Lawn sprinkler.	
Squid, H. A. Howard.....	\$35,547
Steamboat stacks, device for raising or lowering, A. Jacobs.....	\$35,487
Steam trap, J. St. Mary.....	\$35,708

(Continued on page 303)

The Youth's Companion

Issued Every Week — \$1.75 a Year.

FREE—
Every Week to
Jan. 1, 1900 ...

See Subscription Offer Below.

Every Week's
Issue Equals a
12mo Volume
of 175 Pages.

FREE—
The Companion
Calendar ...

A Rare Souvenir in Twelve Colors.

THE volume for 1900 will again exemplify the unceasing efforts of the publishers to increase the attractiveness of the paper for family reading. It has assembled as contributors not only the most popular story-tellers but also famous soldiers and sailors, statesmen, scientists and travelers. Among them are

- Gen. Wesley Merritt.
- Gen. "Joe" Wheeler.
- Andrew Carnegie.
- Walter Camp.
- Reginald de Koven.
- Margaret Deland.
- Bishop Henry Potter.
- John Philip Sousa.



Maj.-Gen. Wesley Merritt.

SEND us your address on a postal card, and we will mail you our Illustrated Announcement of the 1900 volume and sample copies of the paper Free.

Now is the Time to Subscribe.

THOSE who subscribe now, sending \$1.75, the price of a year's subscription, with this slip or the name of this paper, will receive The Companion Free for the remaining weeks of 1899, the beautiful Companion Calendar, and the 52 issues of the new volume to Jan., 1901.

NN182

THE YOUTH'S COMPANION, BOSTON, MASS.

NEW BINOCULAR.

(The TriStar.)
Small as an opera glass. More powerful than the largest field glass. *Send for Circulars.*

QUEEN & CO.
Optical and Scientific Instrument Works,
1010 Chestnut Street,
NEW YORK: 50 Fifth Ave. PHILADELPHIA, PA.

MAXIMUM POWER—MINIMUM COST.

If you use a pump for beer, lard, acids, starch, petroleum, brewer's mash, tanner's liquor, cottonseed oil or fluids, hot or cold, thick or thin you want to get the **TABER ROTARY PUMP** which does the most work at the least expense. Simply constructed. Can be run at any desired speed. Perfectly durable. All parts are interchangeable. Needs no skilled workman. Defects guaranteed. *Catalogue free.*

TABER PUMP CO., 32 Wells St., Buffalo, N.Y., U. S. A.

MORAN FLEXIBLE JOINT

for Steam, Air or Liquids.
Made in all sizes to stand any desired pressure. *Send for reduced price list.*

Moran Flexible Steam Joint Co., Inc'd
147 Third Street, LOUISVILLE, KY.

You spend thousands on coal bills— but how much more about it? Ask for our booklet "H" on the HEINTZ STEAM TRAP.

WILLIAM S. HAINES CO.,
136 South Fourth St., Philadelphia, Pa.

EDISON'S INK TABLET
These tablets make the only writing fluid that cannot be removed with acids, flows freely, takes copy, cheap, permanent (not aniline), send 10c for seven or three colors. **WIT-DON CHEMICAL CO., P. O. Box 2397, N. Y.**

Buy Telephones

THAT ARE GOOD—NOT "CHEAP THINGS."
The difference in cost is little. We guarantee our apparatus and guarantee our customers against loss by patent suits. Our guarantee and instruments are both good.

WESTERN TELEPHONE CONSTRUCTION CO.
250-254 South Clinton St., Chicago.
Largest Manufacturers of Telephones exclusively in the United States.

"American-Hunnings" TELEPHONES.

Transmitters, Magneto Bells and Telephone Switchboards. Over 200,000 of our telephones in successful operation. Used by War and Navy Departments. In ordering state length of line, whether single line or metallic circuit and number of telephones to be used on one line. *Send for catalogue "S. A."*

AMERICAN ELECTRIC TELEPHONE CO.,
173 South Canal St., Chicago, Ill.

H.-C. DENTAL LATHE MOTORS.

The cut illustrates an H.-C. Dental Lathe Motor with speed regulator in base and with extended spindles on which are mounted respectively brush and chamois wheels. These spindles are so arranged that different kinds of wheels and polishing instruments can be readily attached, making it a very convenient arrangement for the busy dentist.

THE HOLTZER-CAROT ELECTRIC CO., Boston (Brookline), Mass.

The "1898 Patent" Independent Lathe Chuck

Does the heaviest as well as ordinary work. Well proportioned in all parts and extremely strong. Jaws reversible in all sizes. Jaw steps are ground true in the chuck after jaws have been case-hardened. Jaw screws are of large diameter and have a fine pitch thread. Workmanship and materials excellent. This chuck has the strongest grip of any on the market. *Send for Catalogue.*

SKINNER CHUCK CO., Church St., New Britain, Conn.

PIERCE WELL ENGINEERING CO.

186 Liberty Street, New York, Manufacturers of Machinery for WATER, OIL and GAS WELLS. Mineral Prospecting. Test Borings, 10 to 5,000 feet deep. Largest experience, best line, highest grade in America. *Send for catalog, 200 engravings. State what is wanted.*

THE ONLY CAMERA FOR ALL PURPOSES IS THE PREMO CAMERA

PRICE \$5 TO \$50. FOR CATALOGUE, SEND TO **ROCHESTER OPTICAL CO., 30 SOUTH ST. ROCHESTER, N.Y.**

From the Shop

to the office; from a small salary to a good one, is but a step if you go the right way about it.

CHANCE YOUR WORK

without loss of present salary. We guarantee to give you an education by mail in Steam, Electrical, Mechanical or Civil Engineering; Mechanical and Architectural Drawing; Bookkeeping; Shorthand, and English Branches.

To the Office

HIGH GRADE WOOD WORKING MACHINERY

Single Machines or Complete Equipments for Any Class of Work.

Four Correspondence is Solicited. Illustrated Matter and Prices on application.

J. A. FAY & CO. 10-30 John St., CINCINNATI, OHIO

DYNAMOS—MOTORS. Multi-Polar Iron-Clad Type. Slow and Moderate Speeds. A Modern Machine embodying all the best features in Dynamo and Motor Construction.

ROTH BROS. & CO., Mfrs. 88-92 W. Jackson Street, Chicago, Ill., U. S. A.

P. T. AUSTEN, Ph.D., F. J. MAYWALD, L. S. MOTT, President, Vice-Pres., Sec. and Treas.

The Austen Chemical Research Co.

Experimental Investigation of Technical Problems. Research Work for Manufacturers. Improvement and Invention of Processes and Products.

52 BEAVER STREET, NEW YORK.

"Universal" Kneading and Mixing Machines

Over 6200 in use. Over 500 varieties in 155 different industries. Patented in all countries.

WERNER & PFLEIDERER Saginaw, Mich. Builders of all kinds of Chemical Machinery.

DON'T LEAVE YOUR KEYS

In the front door. Fasten them to the pocket or waist-band with a key chain secured by the Improved Washburn Patent Fastener.

AMERICAN RING CO. Box F, Waterbury, Conn.

SETS OF CASTINGS OF MODEL ENGINES. SEND 10¢ FOR 126 PAGE ILL. CATALOGUE. ALSO TOOLS. GEAR WHEELS & PARTS OF MODELS. GOODNOW & WIGHTMAN BOSTON

FINE GREY IRON CASTINGS.

Art Castings in Iron, Stove Plate, Light and Medium Weight Machinery Castings, Cored Work.

M. A. SMITH & SON, Manufacturers, 29 and 31 N. 13th St., Philadelphia, Pa.

NEW IDEA IN TRUNKS

The Stallman Dresser Trunk is constructed on new principles. Drawers instead of trays. A place for everything and everything in its place.

F. A. STALLMAN, 61 W. Spring St., Columbus, O.

The Ideal Hunting Shoe

The concentrated product of fifty years of shoemaking skill. Ten inches high, Bellows tongue, uppers gray color, soft as a glove, tough as steel, cannot harden.

M. A. SMITH & SON, 29 and 31 N. 13th St., Philadelphia, Pa.

The Typewriter Exchange

1 1/2 Barclay St., NEW YORK 124 La Salle St., CHICAGO 38 Bromfield St., BOSTON 817 Wyandotte St., KANSAS CITY, MO. 209 North 9th St., ST. LOUIS, MO. 432 Diamond St., PITTSBURGH, PA.

We will save you from 10 to 50% on Typewriters of all makes. Send for Catalogue.

SO SIMPLE A CHILD CAN USE THEM. SUNART CAMERAS. 25 STYLES, PRICES FROM \$5 TO \$50. SEND 2¢ PHOTO FOR ILLUSTRATED CATALOGUE. SUNART PHOTO CO., 5 ARCADE ST. ROCHESTER, N.Y.

THE HARRINGTON & KING PERFORATING CO. PERFORATED METALS OF EVERY DESCRIPTION FOR ALL USES. CHICAGO

Table listing various mechanical parts and their prices, including steering apparatus, sterilizer, stopper, stove, sulfur from ores, superheater, suspenders, switch, table, tank discharge gate, tapping device, telephone systems, trap, tree protector, tube, type, typewriter connecting rod, typewriter machine, umbrella bender, valve, valve gear, valve gear and Lawson, valve, tank outlet, valve, valve can, vaporizer and burner, vaporizing tube, vehicle body banger, vehicle coupling, vehicle motor wheel, vehicle steering apparatus, vehicle wheel, vehicle wheel, vehicles, positionning apparatus, vessel for transport, violon string holder, wagon box fastener, wagon brake, wagon dumping, wagon dumping, wagon jack, wagon speed, warp thread tension, washing device, washing machine, washing machine, watch guard or protector, water rags, water lifting apparatus, water pipe trap, water purifier and elevator, water tower, water tube boiler, weather strip, weighing machine, well cleaning, drilling, and pumping apparatus, wheel, window cleaner, wire fabric machine, wiring blanks, wrench, wrench, Ray & Peck.

DESIGNS.

Table listing various designs and their prices, including binding, bottle, brush back, cabinet, cultivator, dish, envelop, ironing board, kite, lamp body, lamp body, neckwear, necklock washer, plate or similar article, puzzle board, saw patch, stove, stove, stove, sump, suspenders, table, valve body, vapor burner, washing machine agitator.

TRADE MARKS.

Table listing various trade marks and their prices, including ale, beer, cox, crackers, flour, gloves, hair tonics, laxatives, lumber, medicine, metal, needles, patterns, planters, carriage company, remedy, soap, sporting goods, stationery, wheels, window frames, yarns.

LABELS.

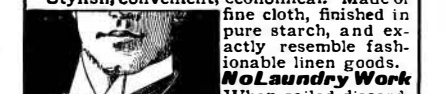
Table listing various labels and their prices, including brilliantine, corning, puzzle, purest green label, U-Tel-U.

A printed copy of the specification and drawing of any patent in the foregoing list, or any patent in print issued since 1863, will be furnished from this office for 10 cents.

Canadian patents may now be obtained by the inventors for any of the inventions named in the foregoing list, provided they are simple, at a cost of \$40 each.

Reversible LINENE Collars and Cuffs.

Stylish, convenient, economical. Made of fine cloth, finished in pure starch, and exactly resemble fashionable linen goods.



REVERSIBLE COLLAR CO., Dept. J, Boston, Mass.

TUBULAR DRIVING LAMP. IT is the only perfect one. IT will not blow out. IT gives a clear, white light. IT is like an engine headlight.



WANTED—Position as Superintendent for some Mfg. Firm in or near N. Y. City. 12 years' experience.

50 YEARS' EXPERIENCE PATENTS

Anyone sending a sketch and description may quickly ascertain our opinion free whether an invention is probably patentable.

Scientific American.

A handsomely illustrated weekly. Largest circulation of any scientific journal.

MUNN & Co., 361 Broadway, New York

Chain BELTING of Various Styles, ELEVATORS, CONVEYORS, COAL MINING and HANDLING MACHINERY.

THE JEFFREY MANUFACTURING CO., COLUMBUS, O.

FOR SALE Two Steam Engines built by The

Each engine consists of 2 horizontal condensing Corliss Engines coupled to one shaft, with a vertical air pump driven from crank pin.

The Pipe of the Century

...THE... "MALLINCKRODT" PATENT NICOTINE ABSORBENT and VENTILATED SMOKING PIPE, IS THE ONLY PIPE FIT FOR A GENTLEMAN TO SMOKE.

Bowls of the Best French Briar, exceedingly neat and graceful in appearance, and cost no more than an ordinary pipe.

ACETYLENE BURNERS.

A new burner for STEREOPTICONS. Highest C. P. possible.

\$3 a Day Sure

Send us your address and we will show you how to make \$3 a day absolutely sure, we furnish the work and teach you free; you work in the locality where you live.

At "HARBACH'S" All MAGIC LANTERNS and SLIDES \$1 up

For Home or Exhibition \$1 up. Magic Lanterns and Slides WANTED.

Brass Band

Instruments, Drums, Uniforms & Supplies. Write for catalog, 448 illustrations. FREE: it gives Music and Instructions for New Bands.

Planning the New Home

Anyone contemplating the building of a new home will find the Building Edition of the Scientific American of peculiar and absorbing interest.

Building Edition of the Scientific American

of peculiar and absorbing interest. This beautiful publication is issued monthly, and contains practical articles and suggestions on modern house building.

MUNN & Co., Publishers, 361 Broadway, New York.

PROPOSALS.

U. S. MILITARY GOVERNMENT OF PORTO RICO. Office of Board of Public Works, San Juan, Porto Rico, October 12, 1899.

Sealed proposals for the building or reconstruction of about eighteen (18) miles of Road in the Island of Porto Rico will be received at this office until noon, December 23, 1899, and then publicly opened.

WE BUY NOVELTIES

of any branch. Send lists and discounts for cash. ROMAIN TALBOT, Berlin C, Germany.

TURBINES

Send for Circular "M." JAS. LEFFEL & CO. Springfield, Ohio, U. S. A.

ICE MACHINES, Corliss Engines, Brewers' and Bottlers' Machinery.

THE WILTZER MFG. CO., 899 Clinton Street, Milwaukee, Wis.

MODELS & EXPERIMENTAL WORK.

Inventions developed. Special Machinery. E. V. Baillard, 106 Liberty St., New York.

GAS AND GASOLINE ENGINES WATER MOTORS

BACKUS WATER MOTOR CO. NEWARK N. J. U. S. A.

For Sale—Van Norman Lathe, 29 in., Waltham Watch Tool Co.'s make, with full attachments, newly re-worn.

MAGICAL apparatus, scientific novelties.

Illustrated catalogue of parlor tricks free. Complete catalogue with 600 engravings, 20c. Martinka & Co., Mfrs., 438 Sixth Ave., N. Y.

FOR STEREOPTICONS AND SLIDES

Moving Picture Machines and Films, write Williams, Brown & Earle, 920 Chestnut St., Philadelphia, Pa.

D'AMOUR & LITTLEDALE MACHINE CO.

Machinery, Tools, Patterns, Models. 130 WORTH ST., NEW YORK.

To Inventors and Manufacturers.

We have exceptional facilities for making turned wooden goods for inventors and others.

D. L. HOLDEN

1336 BEACH ST. PHILADELPHIA PA. SOLE MANUFACTURER REGEALD ICE MACHINES

AGENTS WANTED

for the renowned Mietz & Weiss Kerosene and Gas Engine. A successful Kerosene Engine. Desirable agents wanted for every principal city.

Acetylene Burners.

A new burner for STEREOPTICONS. Highest C. P. possible.

\$3 a Day Sure

Send us your address and we will show you how to make \$3 a day absolutely sure, we furnish the work and teach you free; you work in the locality where you live.

At "HARBACH'S" All MAGIC LANTERNS and SLIDES \$1 up

For Home or Exhibition \$1 up. Magic Lanterns and Slides WANTED.

Brass Band

Instruments, Drums, Uniforms & Supplies. Write for catalog, 448 illustrations. FREE: it gives Music and Instructions for New Bands.

Planning the New Home

Anyone contemplating the building of a new home will find the Building Edition of the Scientific American of peculiar and absorbing interest.

Building Edition of the Scientific American

of peculiar and absorbing interest. This beautiful publication is issued monthly, and contains practical articles and suggestions on modern house building.

MUNN & Co., Publishers, 361 Broadway, New York.