

**THE ANDREWS METAL CHAIR.**

The chair shown in the accompanying illustration is made of steel twisted together by special machinery invented for the purpose. The style shown has a plain veneer seat, but the seats are also made of quartered oak or mahogany, and upholstered in plush or leather, while the frames are enameled in any color, and are also made in antique copper and brass finish. The chair is designed to make an attractive, durable and highly useful piece of furniture for a drawing room, reception room, or dining room, while also especially

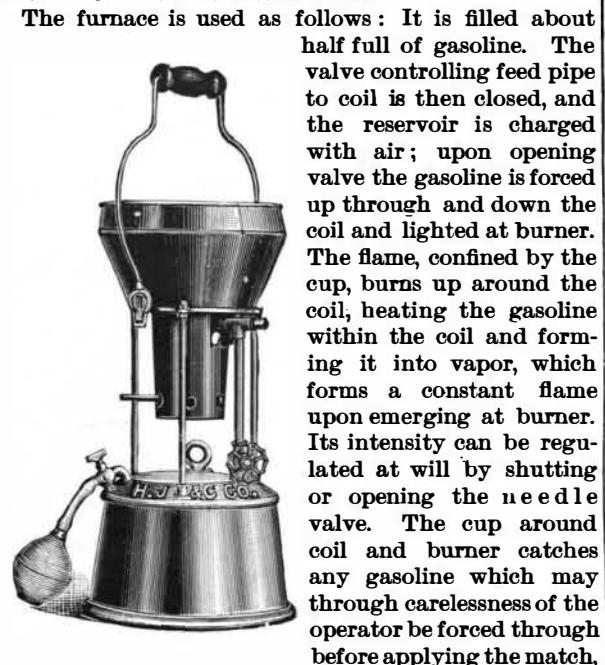


THE ANDREWS METAL CHAIR.

adapted for use on the lawn or veranda, and for halls and other public buildings. It is manufactured by Messrs. A. H. Andrews & Co., Nos. 215 to 221 Wabash Avenue, Chicago.

**A PLUMBER'S BLAST FURNACE.**

In 1878, the Haines, Jones & Cadbury Co.'s blast furnace was put upon the market. Since that time 25,000 furnaces have been sold. Improvements have been added from time to time until it has been brought to its present perfection. The furnace may be briefly described as follows: The reservoir, which holds about one gallon of gasoline, is made of I-XXXX tin, with malleable iron bottom ring and galvanized cast iron top plate. This top plate is tapped for three uprights to support the solder pot; for a filling screw; for a feed pipe, through which the gasoline is conducted through a coil to the burner; and for a small cock through which air is forced into the reservoir by means of a rubber inflator. On top of the three supports is a malleable iron ring, upon which is placed the shield for holding the solder pot. Suspended from this ring is an iron cup which incases a wrought iron coil through which the gasoline is forced by air pressure to the burner connected at bottom of coil.



The furnace is used as follows: It is filled about half full of gasoline. The valve controlling feed pipe to coil is then closed, and the reservoir is charged with air; upon opening valve the gasoline is forced up through and down the coil and lighted at burner. The flame, confined by the cup, burns up around the coil, heating the gasoline within the coil and forming it into vapor, which forms a constant flame upon emerging at burner. Its intensity can be regulated at will by shutting or opening the needle valve. The cup around coil and burner catches any gasoline which may through carelessness of the operator be forced through before applying the match, and also assists materially in confining the flame, and creating an upward draught about the coil, there being holes punched in the cup for admission of air. The solder pot is placed within a sheet iron reverberatory shield, so made that it will throw the heat upon the pot to the greatest possible advantage. The furnace will melt ten pounds of solder in six minutes, at a merely nominal expense, and gives out no smoke nor smell. It weighs but seven pounds, so can readily be carried in connection with the outfit of a plumber or tinsmith.

The shield can be of any size or shape, and there is an increasing demand for the furnace supplied with an oblong solder pot to be used by electric linemen for soldering together the ends of wire; which can be done by simply springing the wire into the pot, thereby saving much time and labor over the old way of pouring the melted solder on the joint. As the furnace is sure in its operation, and not affected by draughts, it can be used out of doors as readily as within a building. This fact, coupled with the many other advantages, has justly earned for it its present popularity.

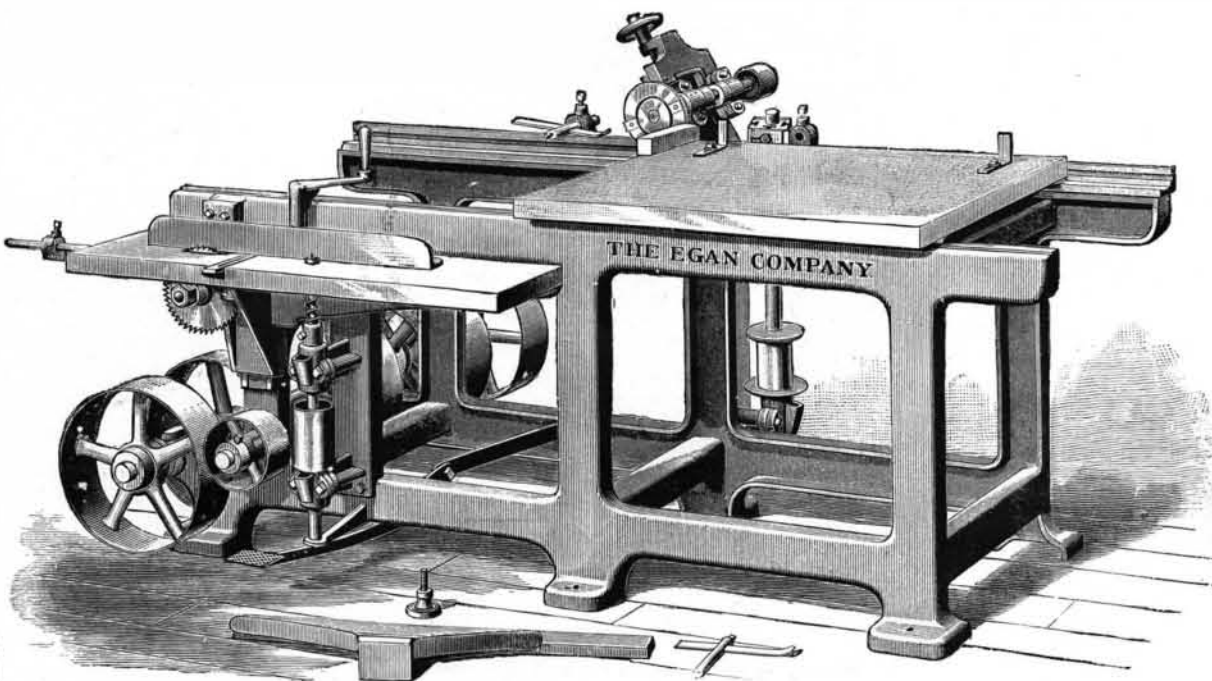
The manufacturers are Haines, Jones & Cadbury Co., of Philadelphia, Pa.

THE HOYT & BROTHER COMPANY, of Aurora, Ill., manufacturers of machinery for working wood, is the style of the recently reorganized manufacturing company started in Aurora in 1871. Owing to the death of Hon. C. L. Hoyt, and the contemplated retirement of L. P. Hoyt from active connection with the business, it became necessary to reorganize the company. The company is an evolution out of the old firm of the R. L. Carter Company, which succeeded the firm of Carter & Pinney, which firm was in turn succeeded by the Hoyt & Brother Mfg. Co., at which time Willis Hoyt identified himself with the concern as secretary and treasurer. They introduced the first successful double cylinder chain feed surfacer ever placed on the market. Following this successful venture came the gradual production of this class of machinery until twenty-three sizes of planers and matchers and eleven different and standard kinds of surfacers and other wood-cutting machinery were manufactured by this firm. This production was increased from year to year until at the present time the illustrated catalogue of the firm represents over 300 different sizes and patterns of wood-cutting machinery, all built in the highest style of mechanical art by skilled experts who have spent many years in acquiring proficiency in this class of work. Hon. C. L. Hoyt, who was at the head of the concern for so many years, is succeeded by his son, Mr. Willis Hoyt, the new president, who has the advantage of long association with his father in the conduct of the business.

**AN IMPROVED WOOD WORKING MACHINE.**

The machine shown in this illustration is designed for finishing the edges of sash, and rabbeting, beading and jointing the edges of blinds, grooving and boring sash for the cords, and the endless variety finishing work of this kind in sash, door and blind factories. It is adapted to do the same amount of work that heretofore required three machines. The top of the frame receives a sliding table working in planed ways for working sash. A stationary table is also furnished for working blinds, when the three cutter heads are brought into operation at once.

The bed is also adjustable on the frame and is provided with a saw mandrel for cutting all kinds of grooves, and a boring mandrel, operated by a treadle, for boring the hole for the cord in the sash, which is then passed to the grooving saw, completing the job at one operation, without taking the sash from the table.



SASH AND BLIND, JOINTING, RABBETING AND FINISHING MACHINE.

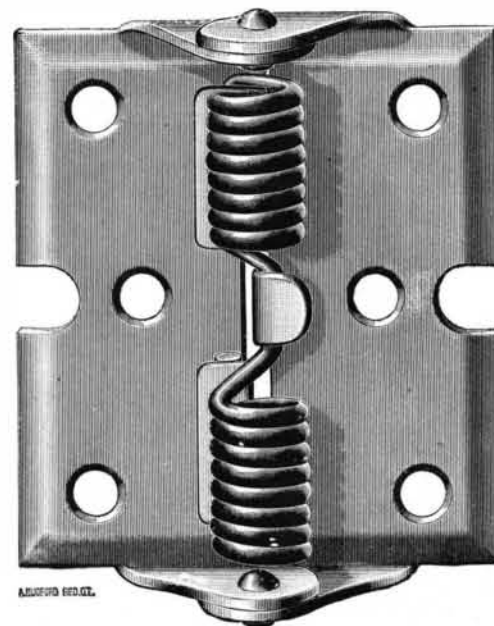
For further information address the builders, The Egan Company, 209 to 229 West Front Street, Cincinnati, O., U. S. A.

THE TIFFANY GLASS AND DECORATING COMPANY is the style of a new firm which has recently absorbed the Tiffany Glass Company. The work of the company covers a high class of house and church decorations and memorial work. In the house decorations the following lines are specialties in which original work is furnished: Frescoes, textile fabrics, hangings,

embroideries, upholsteries, furniture, mosaics, colored glass, gas fixtures, electroliers, metal work, etc. The directors of the new company are: Louis C. Tiffany, C. T. Cook, Henry W. De Forest, George Holmes, Pringle Mitchell, John C. Platt, John Du Fais, Von Beck Canfield. The address of the new company is 333 to 341 Fourth Avenue, New York.

**THE STEARNS HINGE.**

The spring shown in the cut has three parts only, the two leaves and the spring, each leaf being one solid piece of wrought steel, and the spring being held by lips formed up from the leaves. The spring action is designed to hold the door stronger at the closing point, reducing the strain on the spring while increas-



THE STEARNS STEEL SPRING HINGE.

ing its efficiency and durability. Each pair is separately packed in a neat pasteboard box. This spring is made by Messrs. E. C. Stearns & Co., Syracuse, N. Y.

"SELECT MODERN BUILDINGS" is the title of a neat little picture book containing representations of a number of recent notable structures in New York and Brooklyn. It is issued by Messrs. Toch Brothers, New York, manufacturers of mortar colors, and the statement is made that in every one of these handsome and high cost buildings the Toch "Edinburgh" mortar colors have been used.

THE CINCINNATI CORRUGATING CO. issue a very neat catalogue of their productions, including corrugated roofing, siding, ceiling, arches, lath, shutters, doors, etc., V-crimp iron roofing, standing seam plain roofing, roll and cap steel roofing, metallic weather boards, etc. This firm have recently established a rolling mill, galvanizing works, tin plate works, and factory at Piqua, O. The manufacture of roofing tin

plates at the Piqua factory is announced as an addition to the heretofore extensive business of the firm.

THE CAMBRIDGE ROOFING CO., of Cambridge, O., and Chattanooga, Tenn., have issued a new catalogue, got up in a way which indicates that business is prosperous with the company. The last cover page gives a view of their factory plant at their new works at the South, as well as their older factory in Ohio. The company make steel, iron, and tin roofing, with corrugated siding, ceiling, doors, and shutters, etc.