

gas is not sufficiently rarefied, convection currents are established, causing the blackened faces to approach the source of heat.

(5149) J. C. R. says: I have a well the water of which is full of Turbellarian worms, thus rendering it unfit for use.

(5150) E. A. P.—It is said the surface of tracing cloth may be restored by varnishing the cloth with Canada balsam dissolved in turpentine.

INDEX OF INVENTIONS

For which Letters Patent of the United States were Granted

June 13, 1893,

AND EACH BEARING THAT DATE.

[See note at end of list about copies of these patents.]

Table of inventions including: Acid, making derivatives of amido-crotonic, L. Lederer; Advertising apparatus, Oliver & Phillips; Air brake mechanism, F. B. Hatcher; Alloys of nickel with other metals, manufacturing, F. W. Martino; Amine black, discharge, W. T. Whitehead.

Table of inventions including: Collars, cuffs, etc., composition for glazing, A. Viner; Colters, machine for making plow, J. T. Duff; Commodore, D. K. Osbourne; Compound engine, tandem, J. Player; Corn crib, J. Beckley, Sr.; Cotton gin, roller, F. Montgomery.

Table of inventions including: Keyhole guard, W. F. Beasley; Kitchen table and ironing board, combined, J. H. Grossman; Knife, See Bread knife; Knitting machine, J. Bannor; Lamp, Argand, F. T. Williams; Lamp burner, R. T. Barton; Lamp chimney attachment, K. N. Hollister; Lamp electric arc, R. M. Hunter.

Table of inventions including: Stay, dress, G. S. Brown; Steel plates, etc., apparatus for shaping, hardening, and tempering, J. B. Armstrong; Steering gear, ship, W. A. Oglethorpe; Stove, gas, A. Weiskittel; Stove, heating, W. N. Moore; Stove hood, J. Canavan; Stove reservoir, F. S. Lang; Strawboard burning machine, M. F. Wilson; Straw stacker, J. Galland; Structural shape, E. M. Butz; Sugar wagons, machine for dumping, G. Van Wageningen.

TRADE MARKS.

Table of trade marks including: Beer, lager, Bartholomay Brewery Company; Butterine, Swift & Company; Cheese, B. S. Janney, Jr. & Co.; Chocolate, A. H. Stollwe; Cigars, stogies, cheroots, and cigarettes, and smoking and chewing tobacco, Baer Brothers.

DESIGNS.

Table of designs including: Badge, L. J. Chandler; Badge, C. E. Long; Bowl, sugar, H. Berry; Can opener handle, F. E. Kohler; Cap, Grunwaldt & Gauger; Cape, L. H. Well; Cigar box, J. A. Buck; Display stand, C. B. Morrow; Dough cutting die, J. J. Pfenniger; Finger ring gauge, J. W. Ford; Flower bed support for graves, G. W. Burns; Hanger, D. L. Lydick; Hat, J. A. Peck; Hat, J. A. Peck; Hat, J. A. Peck; Hat, J. A. Peck.