

[Special Correspondence of the Scientific American.]

**INTERESTING EXTENSION CASES.**

Washington, D. C., August 26, 1871.

The following extensions have recently been granted: James A. Watrous, for mode of suspending eave troughs; George C. Dolph, for a mowing machine; Charles Monson, for an extension gas tube; John Toulmin, for vibrating shears, the jaws being adjustable to maintain a good cutting contact of the blades; Israel Doderhoff (deceased), a raking mechanism for harvesters, consisting in the construction and combination of the rake with the platform, guides, and gate. The rake travels in a continuous horizontal path. This is one of those cases in which the patentee and his heirs have been unable, for lack of means, to prosecute the invention, and properly bring it before the public. Charles H. Sayre, for cultivator, in which a horse hoe is combined with a double mold board plow, the plows and mold board being made adjustable. Philip W. Mackenzie, cupola furnace for melting iron; the blast is in a continuous sheet; invention very valuable, but no opposition to the extension. Two applications have been refused. Gideon B. Massey, measuring depth of water in slips. This invention consists in an arrangement of an alarm bell and trip, operated by a spring barrel, upon which is wound a cord suspending a heavy float on the water in the hold, so as to indicate on a dial the depth of water, and also to give audible notice when it reaches certain heights.

In view of the patent to Nelson Edwards, March 5, 1850, and the rejected application of W. H. Horton, filed December 1851, the examiner reported unfavorably to the extension, holding that the original patent should not have been granted.

A novel case, and it is to be hoped an exceptional one, has been before the Commissioner this month, in which an extension was both granted and refused, namely, the patent of Timothy Taft, for a metal cutting shears. The upper edge of the movable blade constitutes the inclined plane on which the wheel travels, while the wheel itself is compelled to follow a horizontal direction. The bearing surfaces of the two wheels and two planes are plain, and to prevent slipping, cogged plates are attached which interlock.

Upon the hearing of this case, reference to the records of the office showed that the patentee had made an assignment of all his interest, including the extension, if granted. Under the law the office is not allowed to grant extensions for the sole benefit of assignees, and the Commissioner so ordered; whereupon the attorney in charge of the case, stated that the assignment had been given as a temporary security for money loaned, and that the patentee having cancelled that obligation, the patent had been that day re-assigned to him, but the re-assignment papers had not yet been recorded.

Upon hearing this explanation, and being assured that the transaction was a *bona fide* one, the Commissioner, after the re-assignment was duly entered in the record room, granted the extension. As soon as the decision was rendered, the attorney filed a third assignment of same date with the re-assignment, transferring all right and interest in the patent back again to the same assignee, one Lucius W. Bond, thereby showing that the re-conveyance to Taft was a mere fiction to deceive the Commissioner. The records further show that the patentee, a few days later, assigned his interest in full to one Elizabeth H. Taft. It is not difficult for those who know Mr. Leggett, to believe that on learning the above facts, only an exceedingly curtailed period of time intervened before his first decision was reversed, and the extension refused. Tricks like this are not likely to thrive under Commissioner Leggett's administration.

In a previous letter some figures were given showing the number of patents issued to applicants of each State, based on an examination of the issues of one month only—not two months, as was erroneously stated. [Your Illinois correspondent, who took exception to the number for that State, will please take note of the above correction.]

I now send you the list of issues by States during the first six months of the present year.

New York, 1,282; Pennsylvania, 688; Massachusetts, 613; Illinois, 438; Ohio, 404; Connecticut, 306; New Jersey, 231; Indiana, 193; Michigan, 174; Maryland, 127; California, 121; Missouri, 119; Wisconsin, 112; Iowa, 93; Rhode Island, 84; District of Columbia, 62; Kentucky, 60; Virginia, 52; Georgia, 42; Louisiana, 39; Tennessee, 35; North Carolina, 30; Mississippi, 24; Delaware, 23; Texas, 21; Minnesota, 20; Kansas, 20; West Virginia, 16; South Carolina, 13; Alabama, 13; Oregon, 10; Nevada, 8; Nebraska, 7; Arkansas, 6; Florida, 5.

**AMERICAN INSTITUTE FAIR.**

A visit on the 30th of August to the immense building known as the Empire Skating Rink, in which the coming Fair of the American Institute is to be held, opening on the 7th of September, revealed the fact that in all probability the delays attending the former expositions of this Association are to be repeated this year. Scarcely anything to be shown was on the ground, although the building seemed thoroughly prepared for the reception of everything to be exhibited. The steam boilers were in position, and the large steam engine intended to drive the machinery was nearly set up. The line shafting is also all mounted, and, in short, the managers seem to have performed all the necessary preliminary work. The delay, then, if it takes place, will be on account of the dilatoriness of the exhibitors. We trust, however, that the managers will refrain from opening the Fair until all the arrangements are perfected, and not lay themselves open to the charge made in previous years that they advertised their show, and took money for admission before scarcely anything was ready for exhibition. The building has been enlarged, and the prospects are that the Fair will exceed in interest any previous one.

**Inundation in Hungary.**

Our latest European advices bring accounts of a great calamity in the valley of the Temes. This river rises in the Carpathian mountains, and after a course of 180 miles, flows into the Danube at a point six miles from Belgrade. To save the adjacent lands from flooding, dams were many years ago built; but these were allowed to get out of repair, although the attention of the authorities was called, by the inhabitants of Southern Hungary, to the impending danger. The Temes and its three tributaries, the Bisztra, the Bogovitz, and the Berzava have been unusually full for some time past, and at last the dams have given way. Whole tracts of country have been overflowed, and crops of enormous value utterly ruined. To add to the desolation, severe hailstorms have visited the district, destroying vineyards and orchards, wheat and tobacco fields. The government has, in reversal of the policy of conciliation pursued for some time past, vigorously collected the taxes, these calamities notwithstanding; and the population of a large agricultural district is thus deprived of its trade and industry, and the inhabitants are in great distress.

**Improved Awl.**

Mr. Samuel Babbitt, of Brazil, Indiana, has recently patented an awl constructed with an eye for withdrawing the thread or bristle from the inside of a boot or shoe in the process of sewing. The eye of this awl is made so that it can be opened or closed by a slide which, coming in contact with the leather when the awl is thrust in, automatically opens the eye, the slide being actuated by a spring to close the eye when the awl is withdrawn. The thread, entering the open eye, is held therein by the closing of the slide, and is thus withdrawn.

THE NEW JERSEY STATE AGRICULTURAL SOCIETY announces its thirteenth fair, to be held at Waverly station, near Newark, on September 19, 20, 21 and 22, 1871. Premiums are offered to meritorious exhibits in every branch of agricultural and mechanical industry, as well as in manufactured articles, ornamental as well as useful, and in the fine arts. Steam power and main shafting are provided for the accommodation of exhibitors of machinery, who will, however, have to provide counter shafting, where required, at their own expense. A feature, novel and especially commendable, in the programme, is the offering a gold medal for the best specimen of apprentice's labor in any branch of the mechanical arts. A competition of more than usual interest will be a trial between an Aveling and Porter steam road engine, imported from England, and an engine of the Scotch design, (Thompson's patent), built by the Grant locomotive firm at Paterson. A gold medal is offered for the best steam fire engine. The general superintendent of the arrangements is Mr. E. G. Brown; and the secretary, Mr. E. M. Force, of Newark.

MR. HEYSINGER, of Philadelphia, writes to suggest that the invention of Colonel Clerk, described and illustrated on page 114, current volume, would be much simpler, as well as more effective, if the water resistance were accommodated to the varying strain by using a solid piston, and grooving the inside of the cylinder longitudinally with several grooves following a curve.

**Inventions Patented in England by Americans.**

August 8 to August 14, inclusive.

- COVERING WIRE, ETC.—A. P. Brown, New York city.
- DRESSING MILLSTONES, ETC.—J. W. Fry, Nashville, Tenn.
- DRESS PROTECTOR.—F. Wittram, New York city.
- HOLDER FOR UMBRELLA.—A. Clarke, Chicago, Ill.
- SAND PAPERING MACHINE.—J. Barker, Chicago, Ill.
- SCREW PROPELLER.—H. Zahn, San Francisco, Cal.
- SEED PLANTER.—W. L. Seward, Washington, D. C.
- UMBRELLA.—J. Shepard, New Britain, Conn.

**Foreign Patents.**

The population of Great Britain is 31,000,000; of France, 37,000,000 Belgium, 5,000,000; Austria, 38,000,000; Prussia, 40,000,000; and Russia, 70,000,000. Patents may be secured by American citizens in all of these countries. Now is the time, while business is dull at home, to take advantage of these immense foreign fields. Mechanical improvements of all kinds are always in demand in Europe. There will never be a better time than the present to take patents abroad. We have reliable business connections with the principal capitals of Europe. A large share of all the patents secured in foreign countries by Americans are obtained through our Agency. Address MUNN & Co., 37 Park Row, New York. Circulars, with full information on foreign patents, furnished free.

**Examples for the Ladies.**

Mr. Gilbert Brown, of Williamsburg, N. Y., brought a \$55 Wheeler & Wilson Machine in 1856, (price then \$100) borrowed most of the money to pay for it; has supported his family with it; bought and paid for a house and lot paid taxes, church dues, etc., besides doing his family sewing. During the war he averaged daily 8 infantry frock coats, or 10 cavalry jackets, or 8 military overcoats. Since then he has earned at custom work from \$3 to \$5 per day of 9 hours, and would not now sell his machine for the price he paid for it.

Says a late issue of the Philadelphia City Item: "Ingenuity has been taxed to find the surest and most direct means of reaching the public, and the business man who would advertise a specialty, and get the greatest good out of the greatest number in the shortest space of time, is compelled to go to Geo. P. Rowell & Co., of New York, for advice. Why to this house? Because it is the head and front of the advertising business. It is prompt, methodical and clear in its transactions, and possesses the confidence of all the houses which advertise most."

**Rose Cold and Hay Fever** disappear by the use of Jonas Whitcomb's Asthma Remedy.

[By Telegraph.]

American Steam Safe Co., Cole & Lambert, Managers, No. 300 Broadway, New York City: Our hotel and 30 buildings were destroyed by fire on the 23d inst. The steam safe made by you has just been opened, after remaining in the burning ruins sixty hours, and books and papers remarkably preserved, not being even discolored, W. H. WELCH & SON, Ithaca, N. Y., August 26, 1871. Late Proprietors Ithaca Hotel.

**Safety of Herring's Safe.**

AMBOY, Ill., Aug. 26.—The safe of J. Little, banker, whose bank shared in the conflagration, last night, has been got out of the ruins, and its valuable contents are unharmed. It is one of Herring's safes.—Chicago Journal.

**Business and Personal.**

The Charge for Insertion under this head is One Dollar a Line. If the Notices exceed Four Lines, One Dollar and a Half per Line will be charged.

The paper that meets the eye of manufacturers throughout the United States—Boston Bulletin, \$4 00 a year. Advertisements 17c. a line.

Refined Paraffine Wax, any kind and quantity. C. C. Beggs & Co., Pittsburgh, Pa.

The Eccentric Elliptic Geared Power Presses save power, time labor, and save Punches and Dies. For Circulars, address Ivens & Brooke Trenton, N. J.

Rare Chance—A very profitable manufacturing business for sale—Water Power, Mills, &c., 10 miles from N. Y. city. Price \$5,000. Address H. Wilber, Newark, N. J.

For sale, at a bargain, the Machinery and Stock, for Hoop Skirt Making. Also, a valuable patent for hoop skirts. Will exchange for other property. R. M. Mansur, Augusta, Maine.

A Patent Lock Business for sale, at a bargain. Machinery Tools, Patterns, complete. Apply to C. S. Fordham, 545 W. 21 st., N. Y.

A foreign correspondent asks for description and prices of Shingle Sawing Machines. Send circulars and replies to this office.

Wanted—A party with capital, to finish a machine for whitening and buffing leather. Patents secured, machine nearly done—excellent results have been obtained. Wm. A. Perkins, 20 Peabody st., Salem, Mass. d'Heureuse's Patent Air Treatment in the quick, cheap, and perfect manufacture of wine, cider, spirits, sugar, oils, etc. Rights for sale. For particulars, apply to R. d'Heureuse, P. O. Box 6,844 New York.

No end to demand for reversible sash illustrated July 22, M'rs Sash, Builders' Hardware, etc., secure your territory now at low rates. Wm. P. Nelson, 618 N. Main street, St. Louis, Mo.

Vinegar—how made—of Cider, Wine, or Sorgo, in 10 hours. F. Sage, Cromwell, Conn.

Copper and Brass Seamless Tubes (from 3-8 to 5 in. outside diameter). Merchant & Co., 507 Market st., Philadelphia.

Patent English Roofing Felt, ready coat, thick, durable, and cheap. Merchant & Co., 507 Market street, Philadelphia.

See advertisement of Wilkinson's Combination Pocket Tool.

Send to E. & A. Betts, Wilmington, Del., for list of nice Machinists' Tools, on hand, and making.

For Best Lubricating Oil, Chard & Howe, 134 Maiden Lane, N. Y.

For Cotton Pressers, Storage Men, and Freighters.—35-horse Engine and Boiler, with two Hydraulic Cotton Presses, each capable of pressing 35 bales an hour. Machinery first class. Price extremely low. Wm. D. Andrews & Bro., 414 Water st. New York.

L. & J. W. Feuchtwanger, Chemists, 55 Cedar st., New York, manufacturers of Silicates of Soda and Potash, and Soluble Glass.

Send your address to Howard & Co., No. 865 Broadway, New York, and by return mail you will receive their Descriptive Price List of Waltham Watches. All prices reduced since February 1st.

Self-testing Steam Gauge.—The accuracy of this gauge can be tested without removing it from its connection with the boiler. Send circular. E. H. Ashcroft, Boston, Mass.

Ashcroft's Low Water Detector. Thousands in use. Price, \$15. Can be applied for less than \$1. Send for Circular. E. H. Ashcroft, Boston, Mass.

Lord's Boiler Powder is only 15 cts. per pound by the bbl., and guaranteed to remove any scale that forms in steam boilers. Our Circular with terms and references, will satisfy all. Geo. W. Lord, 107 W. Girard ave., Philadelphia, Pa.

Brown's Coal-yard Quarry & Contractors' Apparatus for hoisting and conveying material by iron cable. W. D. Andrews & Bro., 414 Water st., N. Y. Presses, Dies, and Tinners' Tools. Conor & Mays, late Mays & Bliss, 4 to 8 Water st., opposite Fulton Ferry, Brooklyn, N. Y.

Over 1,000 Tanners, Paper-makers, Contractors, &c., use the Pumps of Heald, Sisco & Co. See advertisement.

For Solid Wrought-iron Beams, etc., see advertisement. Address Union Iron Mills, Pittsburgh, Pa., for lithograph, etc.

Mining, Wrecking, Pumping, Drainage, or Irrigating Machinery, for sale or rent. See advertisement, Andrew's Patent, inside page.

Bliss & Williams, successors to Mays & Bliss, 118 to 123 Plymouth st., Brooklyn, manufacture Presses and Dies. Send for Catalogue.

Makers of 4 in. light Cast Iron Pipe, address E. Whiteley, 61 Charlestown Street, Boston.

Improved Mode of Graining Wood with Metallic Plates, patent July 5th, 1870, by J. J. Callow, Cleveland, O. Sample plate sent for \$3.

Superior Belting—The best Philadelphia Oak Tanned Leather Belting is manufactured by C. W. Army, 301 Cherry Street, Philadelphia.

Improved Foot Lathes, Hand Planers, etc. Many a reader of this paper has one of them. Selling in all parts of the country, Canada Europe, etc. Catalogue free. N. H. Baldwin, Laconia, N. H.

Bailey's Star Hydrant, best and cheapest in the world. All plumbers send for a circular to G. C. Bailey & Co., Pittsburgh, Pa.

Wanted—To invest \$500 to \$5,000 in a good paying Manufacturing or Mercantile Business. Address Box 574, Pittsburgh, Pa.

Copper and Brass Seamless Tubes (from 3-8 to 5 in. outside diameter). Merchant & Co., 507 Market st., Philadelphia.

Line, Shafting, Pulleys, and Hangers. First class. Send for circulars and price lists. Greenleaf Machine Works Indianapolis, Ind.

Peck's Patent Drop Press. For circulars address the sole manufacturers, Milo, Peck & Co., New Haven, Ct.

Diamonds and Carbon turned and shaped for Philosophical and Mechanical purposes, also Glazier's Diamonds, manufactured and reset by J. Dickinson, 64 Nassau st., New York.

To Ascertain where there will be a demand for new machinery or manufacturers' supplies read Boston Commercial Bulletin's Manufacturing News of the United States. Terms \$4 00 a year.

For Sale—The whole or one half interest in Shaw's Patent Feed Water Heater, Filter, and Lime Extractor for Steam Boilers, now being manufactured by David E. Shaw, patentee, Chatsworth, Ill. Send for circular. Investigation solicited.

Patent for sale, or Partner wanted with capital to introduce the same. Please address Philip Marquard, 468 Swan st., Buffalo, N. Y.

Wanted, a good salesman to take charge of a new branch machinery store we are about opening—one who is familiar with Wood-working Machinery, and can furnish good references. Address J. A. Fay & Co., Cincinnati, Ohio.

\$4.00. Stephens' Patent Combination Rule, Level, Square, Plumb, Bevel, Slope Level, etc. See advertisement in another column.

Manufacturers of Corset and Hoop Skirt Steel Springs address D. M. Crawford, Sterling, Ill.