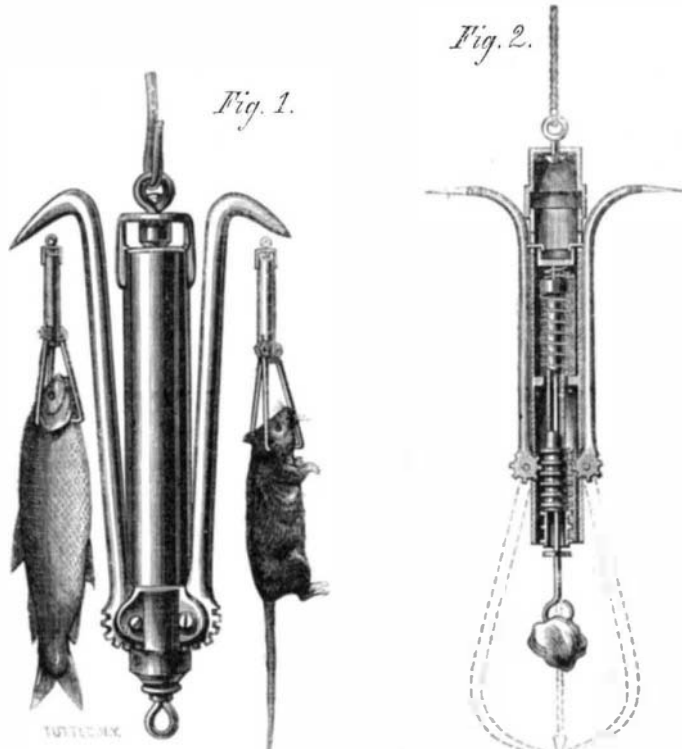


KING'S SPRING FISHHOOK AND TRAP.

The engravings give a correct idea of an improved spring trap patented through the Scientific American Patent Agency, by Jacob King, Jr., of Fort Wayne, Ind., Nov. 20, 1866. Fig. 1 shows the external appearance of the instrument, as set—large figure—and as sprung in the smaller figures. A section exhibiting the interior mechanism is seen in Fig. 2. The outside is a tube having a swivel hook at its upper end, and near the lower projections or ears to receive three hooks. The pivoted ends of the hooks are formed into pinions or segments of gears which engage with a rack cut on the exterior of an inner tube contained inside the outer case. Encircling a portion of this inner tube is a spiral spring one end of which bears against a collar on the end of the tube and the lower end on a projection on the interior of the case. This spring has sufficient tension to spring the hooks down with great force when allowed to stretch after being compressed. Inside the tube is a rod or wire having a hook or ring at its lower end for the reception of the bait, and a hollow disk at the upper end which is held up to position by means of a light spiral spring between the bottom of the disk and the collar on the tube as seen in Fig. 2.

To set the trap the hooks are elevated and a catch on one or more of them passes through



IMPROVED FISHHOOK AND TRAP.

the outer case—small apertures being left for that purpose—and engages with the projecting rim of the disk on the bait rod. A very slight pull or movement of the bait overcomes the limited resistance of the small spring, depresses the disk, disengages the hooks, and allows the larger spring to act.

These traps are made of different sizes for fish and also for other game from bears down to mice. The patentee desires to dispose of the entire right. He can be addressed as above.

STATE OF THE PATENT OFFICE.

Now that Congress has assembled we hope that early attention will be given to the condition of the Patent Office, which sadly needs reconstruction.

The work of examining inventions, in many of the most important classes, is half a year, more or less, in arrears. The Commissioner has long had authority to increase the force and bring up the work; but there he sits in his official chair, month after month, day after day, overwhelmed at the complaints, but provides no remedy. If the promises he makes to provide a remedy, but fails to keep, could be represented by broken crockery, and he surrounded with it, the height of the pile would totally conceal him from view.

A large share of our time as patent solicitors is consumed in writing excuses for grievances occasioned by the incompetence and mismanagement of the Commissioner. In the name of thousands of suffering inventors we appeal to Congress for a speedy correction of the Patent Office abuses. Let a committee of investigation be appointed, witnesses sworn, and all its mismanagement exposed.

Advertisements.

A limited number of advertisements will be admitted in this page on the following terms:— Seventy-five cents a line, each insertion, for solid matter; one dollar a line for space occupied by engravings.

PLATINA POINTS.—For Lightning Rods, Glass Insulators, Staples, Connections, etc., etc., of our celebrated make. A Priced List sent free on application. Wm. Y. McALLISTER, 728 Chestnut street, Philadelphia, Pa. 2 4*os]

ENGINEERS' TRANSITS.—RAILROAD TRANSITS, ENGINEERS' LEVELS, SURVEYORS' COMPASSES, Tripods, Surveying Chains, Chesterman's Metallic and Steel Tape Measures, Slope Levels, Lockes' Hand Levels, etc., etc. Swiss Instruments, Mathematical Instruments, Standard Rules, etc., etc. A Priced and Illustrated Catalogue sent free by mail on application. Wm. Y. McALLISTER, 728 Chestnut street, Philadelphia, Pa. 2 4*os]

CIRCULAR SAWS. N. W. SPAULDING & BROTHERS, 251 WASHINGTON ST., CHICAGO, ILL. Manufacturers of Spaulding's Patent Adjustable-Tooth Circular Saws, adapted to sawing all kinds of timber. These teeth have been in successful use for the last eight years. They save saws, power, and time, making the safest, most durable, and economical saw in use. Particular attention paid to straightening and repairing large saws. All saws sold and work done, warranted. Send for descriptive pamphlet. 2 ostr

EUROPEAN AGENCY for the Exhibition and sale of American Patents and Manufactures. BLANCHARD & MCKEAN, No. 3 Rue Scribe, Paris, France. Will attend personally and promptly to all business relating to the interests of American Inventors and Manufacturers in Europe. Correspondence solicited. GEO. A. BLANCHARD, 2 ostr [J. A. MCKEAN.

WANTED—AGENTS—\$75 to \$200 per month, everywhere, male and female, to introduce throughout the United States, the GENUINE IMPROVED COMMON SENSE FAMILY SEWING MACHINE. This machine will stitch, hem, fell, tuck, quilt, bind, braid, and embroider in a most superior manner. Price only \$18. Fully warranted for 5 years. We will pay \$1,000 for any machine that will sew a stronger, more beautiful, or more elastic seam than ours. It makes the "Elastic Lock Stitch." Every second stitch can be cut, and still the cloth cannot be pulled apart without tearing it. We pay agents from \$75 to \$200 per month and expenses, or a commission from which twice that amount can be made. Address SECOMB & CO., Cleveland, Ohio. CAUTION.—Do not be imposed upon by other parties palming off worthless cast-iron machines, under the same name or otherwise. Ours is the only genuine and really practical cheap machine manufactured. 2 ostr

AN ILLUSTRATED Manual of 112 Pages, describing all Mathematical Instruments and drawing material, their uses and how to keep them in order, with priced catalogue attached, sent by mail free by JAMES W. QUEEN & CO., 924 Chestnut street, Philadelphia, Pa. 25 4*os]

LINDSAY'S Patent SCREW WRENCH. THREE TIMES THE STRENGTH WITHOUT ADDITIONAL WEIGHT.—Call on nearest Hardware Store and look at it, or send for circular to MANVEL & LINDSAY, New York. 21 13 os]

\$18.00 A DAY.—Agents wanted, male and female, to introduce a new article of household utility. Only Five Dollars Capital Required. Particulars free. Address W. A. HENDERSON & CO., Cleveland, Ohio. 18 ostr-R.

PRINTING.—CARDS, CIRCULARS, Bill heads, Pamphlets, Newspapers, and every description of printing executed neatly and with dispatch. Also, Electrotyping and stereotyping, and orders for Designing and Wood Engraving promptly attended to by MAGDONALD & CO., 37 Park Row, (Room 40), New York. 21

BAIRD'S CATALOGUE OF PRACTICAL AND SCIENTIFIC BOOKS, Revised and Completed to June 1, 1867, will be sent, free of postage, to any one who will call for it with his address. HENRY CARBY BAIRD, Industrial Publisher, 406 Walnut street, Philadelphia.

Stair Rods.

BRONZE, FIRE GILT, AND SILVER Stair Rods, with Patent Fastening, which prevent the rod slipping from its place, and can be adjusted in an instant. Manufactured only by W. T. & J. MERSEREAU 62 Duane st. 1 2os]

CIRCULAR SAWS,



EMERSON'S PATENT MOVABLE TEETH.

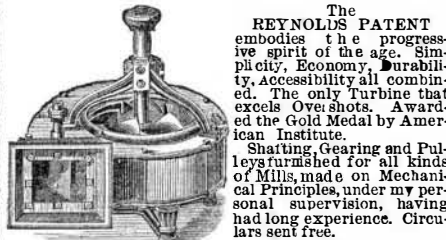
These Saws cut More and Better Lumber in the same time, and with Less Power, than any other Saw in the world, with Less Expenditure of Labor and Files to keep in order, and never Wear Smaller. Also

EMERSON'S PATENT GAUGING AND SHARPENING SWAGE, For Spreading the Points of Saw Teeth. Send for New Descriptive Pamphlet, with Price List.

2 Jacob street, near Ferry street, New York.

AMERICAN SAW COMPANY, 1 st

TURBINE WATER WHEELS.



GEORGE TALLCOT, 17 13*st—H] No. 96 LIBERTY STREET, NEW YORK.

MASSACHUSETTS INSTITUTE OF Technology.—A scientific school for the professional education of Mechanical, Civil, and Mining Engineers, Practical Chemists, Builders, and Architects, and for the general education of young men for business life. Instruction given in mathematics and the physical sciences, modern languages and English studies. Students received in special studies. Examinations for admission Oct. 5 at the New Institute Building, Boylston st., Boston. For catalogues apply to Prof. W. P. ATKINSON, Secretary of the Faculty. [26 9*-N] Wm. B. ROGERS, Pres't.

LE COUNT'S IMPROVED LATHE DOGS, 8 Sizes, from 3/4 to 2 inches.....\$ 8 00 12 Sizes, from 2 1/2 to 4 inches.....\$17 30 Improved Machinists' Clamps, 5 sizes.....\$11 00 Stout Boiler-makers' Clamps.....\$ 4 00 All with Steel Screws, well fitted. Address 24 13*] C. W. LE COUNT South Norwalk, Ct.

BUERK'S WATCHMAN'S TIME DETECTOR.—Important for all large Corporations and Manufacturing concerns—capable of controlling with the utmost accuracy the motion of a watchman or patrolman, as the same reaches different stations of his beat. Send for a Circular. J. E. BUERK, P. O. Box 149, Boston, Mass. N. B.—This detector is covered by two U. S. patents. Parties using or selling these instruments without authority from me will be dealt with according to law. 16 19*

AGENTS WANTED.—To sell our Patent Measuring Faucet. Send for Circulars, Enterprise Manufacturing Co., of Pennsylvania, 120 Exchange Place Philadelphia 26 6*]

FOR SALE—One 80-horse stationary Engine, Woodruff & Beach; pattern has just been re-lit and is in good order. Also, one pair Boilers, 17 1/2 feet long by 40 inches diameter, with "Boardman drops," will be sold low, as the owners have no use for them. 26 4 Address, PLANTS MANUFACTURING CO., New Haven, Conn.

\$20.00 AGENTS WANTED—\$100.00.—Male and female, to introduce our New Patent Star Shuttle Sewing Machine. It is adapted for family use and Tailoring. It makes a stitch alike on both sides. Price only Twenty Dollars. Extraordinary inducements to Agents. For full particulars, address W. G. Wilson & Co., Cleveland, Ohio.

WANTED—A PARTNER WITH \$600, in an entirely new article, wanted by every house-keeper throughout the country. Patent Right secured. Will sell quick and cheap. Call on or address HENRY STONE, Model Maker, 121 Walker st., near Center, N. Y.

FOR SALE—Very superior upright Drills, New Friction Feed, materials and workmanship first class. Send for cut 2 st BULLARD & PARSONS, Hartford, Conn.

WANTED—BY A YOUNG MAN EDUCATED as a Civil Engineer, a situation as Assistant to a civil engineer for the summer months or longer. Address CIVIL ENGINEER, Box 164, Brighton, Mass. 1*

INCRUSTATIONS.—Gaylord & Co., Ports-mouth, O., having used 2,500 lbs. yearly of Winans' Boiler Powder, write to Wm. Colcord, Esq., St. Louis.—"We have used Mr. Winans' Incrustation Powder eight years, and would not know how to get along without it," etc. Beware of imitations. H. N. WINANS, N. Y.

THE AMERICAN TURBINE WATER WHEEL, Patented by Stout, Mills, and Temple, possesses new and valuable improvements, and remedies defects which exist in all other Turbine wheels. Per cent of power guaranteed to be equal to any overshot wheel. For descriptive circulars address OLIVER & CO., 131 Agents, 55 Liberty street, New York.

BURGH'S MODERN MARINE ENGINEERING COMPLETED. PART IS THIS DAY RECEIVED. The whole work complete forming the 18 parts, illustrated with 36 correctly colored plates and 259 clear wood cuts, neatly bound in one volume, cloth, 4to, 403 pages, \$30; half morocco, \$35. D. VAN NOSTRAND, 192 Broadway.

PLATINUM—For all Laboratory and Manufacturing purposes. Platinum Scrap and Ore Purchased. H. M. RAYNOR, Office 748 Broadway, N. Y. 2 5*

TO PATENTEES.—Owners of Patents of meritorious and salable articles in sheet or cast metal can have them made, sampled, and introduced by addressing J. H. WHITE, Newark, N. Y. Press and Drop Work, Dies, etc., to order 1*

WANTED—A Partner to take an interest in six new Inventions to the amount of five or ten thousand dollars, none need apply only those having the money address J. H. B. Hillsboro, Ill., Stating where an interview can be had. 2 2*

A PATENT RIGHT FOR SALE OF one of the best Ice Houses ever invented. It can be used by butchers, grocers, and others at a small cost for ice, and can be put up as cheap as any. For full particulars and where one can be seen and tested, apply to HENS & ZIMMER, 137 Delancey street. State rights or the whole patent for sale. 1*

GENERAL AGENT AND COMMISSION MERCHANT. G. PELOUSAS, PARIS, OF ST. LANDRY, LA. T. G. COMPTON, Editor and Proprietor of the Southern Sentinel, a paper having one of the largest circulations in the interior of the state, offers his services as above, for the sale of all useful inventions and articles, in a section of country which must necessarily buy largely in that way. He has large storage room, and through his paper can give wide notice of any article consigned to him, and he will pay freight and charges on all shipments of which he has timely notice. References in New York to Messrs. S. M. Pettigill & Co., and in New Orleans, Messrs. Given, Watts & Co., or Messrs. Lee, Crandall & Co., correspondents of McCombie & Child, No. 61 Broad street.

A VALUABLE INVENTION.—A bank lock has recently been patented which possesses some valuable features. It is the invention of Chas. Flesci, a Rochester mechanic and practical man in the manufacture of safe locks. It is intended to obviate some of the defects of ordinary locks, and to add features which will be recognized by practical safemen as of the first importance. The lock works are operated by a turning key spindle as usual; but the actuating cam inside supports the parts in such a manner that when the spindle is pressed in the dog cannot touch the edges of the wheels at all, and when drawn out, it can touch but once in a revolution. This is of the utmost importance, for it is by the touch of the dog on the wheels that the burglar and lock pick are enabled to ascertain the position and open the lock. Another valuable feature is the closing jaws which form the bolt, being so arranged that a double stop or shoulder is interposed to remove the strain of the bolt-work from the combination wheels. There are no springs to get out of order, and no magnet in the lock. The lock has been on exhibition for some days at Dewey's windows, in the Arcade. The inventor is certainly deserving of much credit for producing so fine a specimen of workmanship.

Scientific American, 4000 Book Pages a Year THE BEST NEWSPAPER IN THE WO LD.

This paper differs materially from other publications being an Illustrated Periodical, devoted to the promulgation of information relating to the various Mechanical, and Chemical Arts, Photography, Manufactures, Agriculture, Patents, Inventions, Engineering, Mill Work, etc. Every number of the SCIENTIFIC AMERICAN contains sixteen large pages of reading matter, abundantly illustrated.

All the most valuable discoveries are delineated and described in its issues; so that, as respects inventions, it may be justly regarded as an Illustrated Repertory, where the inventor may learn what has been done before him in the same field which he is exploring, and where he may bring to the world a knowledge of his own achievements.

The contributors to the SCIENTIFIC AMERICAN are among the most eminent scientific and practical men of the times.

Mechanics, Inventors, Engineers, Chemists, Manufacturers, Agriculturists, and people in every profession of life, will find the SCIENTIFIC AMERICAN to be of great value in their respective callings. Its counsels and suggestions will save them hundreds of dollars annually, besides affording them a continual source of knowledge, the value of which is beyond pecuniary estimate.

An official list of all Patents granted, together with the claims thereof, is published weekly.

The form of the SCIENTIFIC AMERICAN is adapted for binding and preservation; and the yearly numbers make a splendid volume of nearly one thousand quarto pages, equivalent to nearly four thousand ordinary book pages. Published Weekly, \$3 a year, \$1.50 half year, 10 copies for 1 year, \$25. Specimen copies sent gratis. Address

MUNN & CO., No. 37 Park Row, New York