promising multitude, ninety per cent. have been either cured or greatly benefited.

We have proved that a number of diseases which by common consent have been assigned to the category of "incurables," no longer belong there. We have cured a number of cases of Bright's disease. Two of these cases were brothers whose father, one brother, and one sister had died of the same disease. We have treated four cases of Locomotor ataxia, or progressive paralysis. In all of these the progress of the disease has been arrested (which no system of medication has ever been known to do), and the patients have made genuine progress toward health. We almost never fail to cure asthma-even o fifteen years' standing-unless the case has been spoiled by the use of narcotics, which served as palliatives but constantly aggravated the disease. The same can be said of that "opprobrium medendi," hay fever. The cases of consumption-confirmed phthisis—which the Compound Oxygenhas cured can be counted by scores. We are confident that we make more genuine cures of catarrh-nasal, laryngeal, bronchial, and pulmonary-than all the catarrh specialists in the country.

A distinguished member of the New York Bar, who appeared to be a wreck both physically and mentally, and who had settled up his worldly affairs, resumed his active business after three months' treatment; and this business be has successfully followed for a year. Mrs. Mary A. Livermore, who had been disabled for nearly two years by a dangerous exhaustion of the brain, has for a year and a half been prosecuting her professional work with more ease and energy than ever before. The Hon. W. D. Kelley, the Father of the National House of Representatives, will tell any one that he owes the last ten years of his life to Compound Oxygen; and it can hardly be disputed that during this period his labors have not been surpassed by those of any other member of Congress. William Penn Nixon, of the Chicago Inter-Ocean, says that he owes his life and some years of active usefulness to the virtues of Compound Oxygen. The public know very well the unqualified testimony which Mr. T. S. Arthur has borne in favor of the Compound Oxygen as exhibited in his own case.

But why multiply examples? We have published many hundred statements in the patients' own language of the effects of Compound Oxygen in almost every kind of disease.

Now what of the future? Having accomplished what we have, and against such odds, our progress henceforward should be broader, more successful, and more beneficent. As was to have been expected, proprietors of sanitariums and health resorts, whose business has been diverted from them by the popularity of the Compound Oxygen, try to show that our agent is inert. But until they can rationally account for the thousands of wonderful cures effected by it, their tirades are in vain. Of course there are—and there will probably be more-imitators of the Compound Oxygen. Some have already stolen our title, our literature, and even our testimonials. One of them, having obtained from William Penn Nixon an opinion of Compound Oxygen in his own case, now publishes it as though Mr. Nixon was cured by his treatment instead of ours! Some of those agents may be innocuous; but we have a good reason to believe that many of them are positively injurious.

They will have their day.

But despite all factious opposition Compound Oxygen must become increasingly popular, so long as it esses the ability to effect such remarkable cures a now attest its merit.

For full information regarding the treatment and it use, address 1109 and 1111 Girard St., Philadelphia.

Business and Personal.

The Charge for Insertion under this head is One Dollar a line for each insertion; about eight words to a line. Advertisements must be received at publication office asearly as Thursday morning to appear in next issue.

All Books on Electricity, Cheap. School Electricity, N. Y.

"The Sweetland Chuck." See ad. p. 108.

Address wanted of manufacturer of gasoline stoves. A. Roesler, Market Street, Charleston, S. C.

Wanted .- Superintendent for agricultural implement factory near New York. Must understand machine shop, wood shop, foundry, blacksmithing, etc., accord-Address, stating experience, expectations, etc., ' and Iron," care of William Young, 21 Park Row, N.Y.

Street Telescope, M. T.,835 Linden St., Camden, N. J. If you want the best Helve Hammer in the world, send to Bradley & Company, Syracuse, N. Y.

Iron and steel drop forgings of every description. R. A. Belden & Co., Danbury, Ct.

Thread Cutter.—Something new and useful, adapted office. Price 10 cents each. to all kinds of sewing machines. Patent for sale. Address, Gavino Gutierrez & Co., 192 Front St., New York.

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James F. Hotchkiss, 86 John St. New York.

Pumps-Hand & Power, Boiler Pumps. The Goulds

Mfg. Co., Seneca Falls, N. Y., & 15 Park Place, New York. Fox's Corrugated Boiler Furnace, illus. p. 354. Hart- 2 vol. mann, LeDoux & Maecker, sole agents, 134 Pearl St., N. Y.

For Freight and Passenger Elevators send to L. S. Graves & Son, Rochester, N. Y.

Best Squaring Shears, Tinners', and Canners' Tools at Niagara Stamping and Tool Company, Buffalo, N. Y.

Lathes 14 in, swing, with and without back gears and screw. J. Birkenhead, Mansfield, Mass.

The Best.—The Dueber Watch Case.

If an invention has not been patented in the United States for more than one year, it may still be patented in Canada, Cost for Canadian patent, \$40. Various other foreign patents may also be obtained. For instructions address Munn & Co., SCIENTIFIC AMERICAN Patent Agency, 261 Broadway, New York.

Guild & Garrison's Steam Pump Works, Brooklyn, N. Y. Steam Pumping Machinery of every description. Send for catalogue.

Nickel Plating.-Sole mannfacturers cast nickel anodes, pure nickel salts, polishing compositions etc. Complete outfit for plating, etc. Hanson & Van Winkle, Newark, N. J., and 92 and 94 Liberty St., New York.

Lists 29, 30 & 31, describing 4,000 new and 2d-hand Machines, ready for distribution. State just what machines wanted. Forsaith & Co., Manchester, N. H., & N. Y. city. For Power & Economy, Alcott's Turbine, Mt. Holly, N. J.

"Abbe" Bolt Forging Machines and "Palmer" Power Hammers a specialty. Forsaith & Co., Manchester, N.H. Railway and Machine Shop Equipment.

Send for Monthly Machinery List to the George Place Machinery Company, 121 Chambers and 103 Reade Streets, New York.

Wanted .- Patented articles or machinery to make nd introduce. Gaynor & Fitzgerald, New Haven. Conn.

Water purified for all purposes, from household supplies to those of largest cities, by the improved filters manufactured by the Newark Filtering Co., 177 Commerce St., Newark, N. J.

Split Pulleys at low prices, and of same strength and on the small shaft will be about four times as great a

nation on any special engineering mechanical, or scien- while the other shaft is revolving once; and since th tific subject, can have catalogue of contents of the Sci-ENTIFIC AMERICAN SUPPLEMENT sent to them free. The SUPPLEMENT contains lengthy articles embracing the whole range of engineering, mechanics, and physical science. Address Munn & Co. Publishers, New York.

Machinery for Light Manufacturing, on hand and built to order. E. E. Garvin & Co., 139 Center St., N. Y. tion, and take no more power, than the wheel wit Fossil Meal Composition, the leading non-conducting covering for boilers, pipes, etc. See adv., p. 108.

lesign, materials, workmanship, governing; no packing. Improved Skinner Portable Engines. Erie, Pa.

Drop Forgings. Billings & Spencer Co. See adv., p. 398. Curtis Pressure Regulator and Steam Trap. See p. 78. Woodwork'g Mach'y. Rollstone Mach. Co. Adv., p. 78. C. B. Rogers & Co., Norwich, Conn., Wood Working Machinery of every kind. See adv., page 77.

American Fruit Drier. Free Pamphlet. See ad., p. 94, Brass & Copper in sheets, wire & blanks. See ad.p. 94.

The Chester Steel Castings Co., office 407 Library St., Philadelphia, Pa., can prove by 20,000 Crank Shafts and 15,000 Gear Wheels. now in use, the superiority of their Castings over all others. Circular and price list free.

The Improved Hydraulic Jacks, Punches, and Tube Expanders. R. Dudgeon, 24 Columbia St., New York. Friction Clutch Pulleys. D. Frishie & Co., Phila, Pa.

Tight and Slack Barrel Machinery a specialty. John Greenwood & Co., Rochester, N. Y. See illus, adv. p. 93.

Magic Lanterns and Stereopticons of all kinds and prices. Views illustrating every subject for public exhibitions, Sunday schools, colleges, and home entertainnent. 116 page illustrated catalogue free. McAllister Manufacturing Optician, 49 Nassau St., New York.

Hand and Power Bolt Cutters, Screw Plates, Taps in great variety. The Pratt & Whitney Co., Hartford, Ct. Lightning Screw Plates, Labor-saving. Tools, p. 92.



HINTS TO CORRESPONDENTS.

No attention will be paid to communications unless accompanied with the full name and address of the writer.

Names and addresses of correspondents will not be given to inquirers.

We renew our request that correspondents, in referring to former answers or articles, will be kind enough to name the date of the paper and the page, or the number of the question

Correspondents whose inquiries do not appear after a reasonable time should repeat them. If not then pubing to modern customs, and be a man of proved ability. lished, they may conclude that, for good reasons, the Editor declines them.

Persons desiring special information which is purely of a personal character, and not of general interest, should remit from \$1 to \$5, according to the subject, as we cannot be expected to spend time and labor to obtain such information without remuneration.

Any numbers of the Scientific American Supple-MENT referred to in these columns may be had at the

Correspondents sending samples of minerals, etc., for examination, should be careful to distinctly mark or Hoisting Engines for Mines, Quarries, Bridge Builders, label their specimens so as to avoid error in their indenti-

(1) C. M. asks: In what proportion of bulk atmospheric air is reduced by compression into 2, 3, 4, "How to Keep Boilers Clean." Book sent free by etc., atmospheres? I mean, for instance, what room will 1 cubic foot of air occupy after having been com-Iron Planer, Lathe, Drill, and other machine tools of pressed to 2, 3, 4, etc., atmospheres, showing a pressure modern design. New Haven Mfg. Co., New Haven, Conn. of 45, 60, 75, 90, etc., 1b respectively? A. The pressure resulting from the compression of atmospheric air in volumes after cooling to the normal temperature isvolumes compressed into one-

6 vol. 45 lb. 30 lb. 60 lb. 90 lb. At the instant of compression the pressure arising

from the liberation of the latent heat carries the pres-

sure somewhat higher.

ing would be required.

(2) H. M. B.—We should infer from the description that the substance was some sort of slag having a melting point lower than the heat to which the bricks were exposed. It is probably a silicate of lime or iron. To positively determine its nature an analysis would be necessary, the expense of which would be from \$10 to \$20, and a larger quantity of the coat-

(3) J. L. T. writes that hammering and heating are two essentials to insure a good mill pick. Never strike a pick or any steel tool on edge where the red heat has left it; let all the hammering be on the flat surface, and the last blows right along the point of the tool to bring the steel close where the greatest resistance to the blow is required. Clean, cold, soft water

the pick a cherry red heat, and dip without drawing | Clay crushing roller, J. W. Penfield. temper; if the steel is good, you will have a pick that w give good service, and you can draw them down just thin as you want them and give them from 11/2 in. t 11/2 in, clear temper.

(4) F. W. M. writes: 1. Suppose I have gear wheel with a loose journal-bearing surface 2 is in width, revolving on a shaft 11/2 inches in diameter and another loose gear wheel just like the first, on that the width of its journal-bearing surface is half a inch, and it revolves on a shaft 6 inches in diamete Will the bearing surface in both cases be the same viz., 9.4248 + sq. in.? A. The bearing surface will b the same, 9.4248 + sq. in. 2. Now suppose the whe on the 6 in. shaft is to be revolved only one-fourth a fast as the wheel on the 11/2 in. shaft, would the frictio Presses & Dies. Ferracute Mach. Co., Bridgeton, N. J. and wear be same in each? A. The friction and wear appearance as Whole Pulleys. Yocom & Son's Shafting on the larger. The contact surfaces in both instance Works. Drinker St., Philadelphia. Pa. are the same, but in the former case the same particles. are the same, but in the former case the same particle Supplement Catalogue.-Persons in pursuit of infor. are brought in contact with one another four time weight upon both shafts is assumed to be the same the wear must be four times as rapid in the on instance as in the other. 3. Would it require any mo power to operate one than the other? I have been thinking that under the above circumstances the whe with the large shaft would suffer no more wear or fri the smaller shaft. But if they were both to make revolution in the same time, the former would wear for Straight Line Engine Co. Syracuse, N. Y. Best in times as fast and take four times the power. A. It impossible to answer the question of power positively as the conditions are not fully enough given. W should say, however, that the power required to fulfil above conditions will be about the same for both shafts although theoretically a little more power will be re quired to overcome greater wear of smaller shaft.

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(4) F. W. M. writes: 1. Suppose I have a gear wheel with a loose journal-bearing surface 2 in.	S. Hungerford
in width, revolving on a shaft 1½ inches in diameter, and another loose gear wheel just like the first, only	Copper, tinning sheet. A. A. Cowles
that the width of its journal-bearing surface is half an inch, and it revolves on a shaft 6 inches in diameter.	& Lentsch (r)
Will the bearing surface in both cases be the same, viz., $9.4248 + sq.$ in.? A. The bearing surface will be	for farm, R. Romaine 292,511 Cultivator, H. W. Ferguson 292,639
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with the large shaft would suffer no more wear or friction, and take no more power, than the wheel with	Electric conductor, A. A. Cowles
the smaller shaft. But if they were both to make a revolution in the same time, the former would wear four	Electric machine, dynamo, J. S. Sellon
times as fast and take four times the power. A. It is impossible to answer the question of power positively,	Electric signaling apparatus, L. J. Crossley et al 292,542 Electrical circuit breaker for annunciators and
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above conditions will be about the same for both shafts, although theoretically a little more power will be re-	Electrical indicator, E. Weston
quired to overcome greater wear of smaller shaft. (5) O. F., Jersey City, asks what sized air	Elevator, G. A. Saxer. 292,684 Elevator safety gate, F. K. Bartlett. 292,462
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Alarm. See Lamp alarm. Bag holder, M. Hayman	Sébiliot. 292,690 Furnace grate, M. C. Jones. 292,492 Furnace groint. E. C. Condit. 292,537 Furnaces, device for indicating the temperature in annealing. M. A. Lhuissier 292,497 Furnaces, manufacture of non-calcareous linings for metallurgical, J. Reese. 292,597 Gage. See Liquid or water gage. Sawyer's gage. Gage, J. H. Fenety. 292,551 Game apparatus, G. A. Lilliendahl. 292,552 Game checker and base ball combination, H. S. 292,709 Gas and water regulator, A. E. Cohn 292,536 Gas, apparatus for producing, G. W. Billings. 292,622 Gas burner. J. G. Sanderson 292,762 Gas scruber, C. W. Isbell 292,491 Glass, apparatus for the application of compressed air to the manufacture of, A. A. & L. A. Appert. 292,491 Glass articles snap for holding, H. C. Schrader 292,605 Glassware, manufacture of ornamental, W. F. Russell 292,765 Glassware, manufacture of spangled, W. Leighton, Jr. 292,668 Gold by means of alkaline sulphides, extracting, C. P. Williams 292,605 Governor, centrifugal, J. Selwig 292,512 Grinding mill,
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