(11072) C. W. asks: Will you please explain why the sun shines on the north side of a house two times a day, early in the morning and late in the evening? A. From March 22 to September 22 the sun rises north of the eastern point of the horizon and sets to the north of the western point of the horizon. For a time then during the morning and evening it is north of an east and west line through any house which stands north and south. It will during that time shine on the north side of such a house.

(11073) J. D. asks: A bullet fired from a rifle perpendicularly, at what rate of speed would this bullet return to the point at which it was fired—at a greater, less, or same rate of speed? B says it would return to the rifle at the same rate of speed as it had when it started or was fired. A. The air resists the flight of a bullet very sensibly. If it is fired vertically upward, then it will not rise so high as theory requires, and starting to fall from a lower altitude than it should have attained by theory, it will again fail to gain the velocity with which it began its flight. If there were no resistance of the air to encounter, the bullet would rise to the height given by its initial velocity, and in falling, would regain its initial velocity. B is not right.

(11074) S. F. M. says: I wish to know what is considered the average per cent of loss in producing electric light from the coal pile. That is, what per cent is lost in generating steam, then in the engine, then in the dynamo, and then in the light bulb. A. We would say that the statement is frequently made that an incandescent lamp has an efficiency of one per cent; that is, one per cent of the heat value of the coal is given back in light. The arc lamp is more efficient. The steam engine is usually given as about 15 per cent. The dynamo is about 90 per cent. The loss in wiring, etc., depends upon conditions of the local service. Sloane gives the efficiency of the arc as thirteen times that of gas. You will find much in his "Handy Book of Electricity" of value to you. We will send it for $3.50.

(11075) P. H. says: 1. The distances between graduations on mercury thermometers are uniform. Does mercury expand uniformly for each degree increase in heat? If not, is the thermometer (mercury) scale accurate? A. The rate of expansion of mercury with the rate of temperature increases as the temperature becomes higher, from which it follows that if a thermometer showing the dilation of mercury simply were made to agree with an air thermometer at 32 deg. and 212 deg. Fah., the mercurial would show lower temperature than the air thermometer between those points and higher temperature beyond them. For instance, according to Regnault, when the air thermometer marks 662 deg. Fah., the mercurial marks 683.89 deg. Fah., an error of 21.89 in the latter. Actual mercurial thermometers indicate intervals of temperature proportional to the difference between the expansion of the mercury and that of the glass; the latter corrects to some extent the errors arising from inequalities in the expansion of the mercury, so that for practical purposes the mercurial thermometer sensibly coincides with the air thermometer for all temperatures from a few degrees above the freezing point of mercury (—39 deg. Fah.) to about 500 deg. Fah., the errors in the ordinary atmospheric range of temperature being immeasurably small. 2. Is there any limit to the stellar universe? We say that the light from one star takes 20,000 years to reach us. Are there any stars farther away than this? If so, is there any calculable limit? A. Concerning matters which are immeasurable, there is nothing which may be asserted with more assurance than that there are no calculable limits to the stellar universe. There is every reason to suppose that there are stars the light of which has not yet reached the earth though they may have been incandescent for countless ages; quite as probably if they or our telescopes are of sufficient magnitude for their light to be detected at all, the latter will continue to reach us for ages after the stars are extinct.

NEW BOOKS, ETC.

THE APPLICATION OF HIGHLY SUPERHEATED STEAM TO LOCOMOTIVES. By Robert Garbe. New York: Norman Henley Publishing Company. 8vo.; pp. 70; fully illustrated with folding plates and tables. Price, $2.50.

This book is a reproduction, carefully edited by Mr. Leslie Robertson, of a series of articles which appeared in The Engineer, the interesting and in some instances revolutionary views of the author being carefully preserved in this the first English version of the reason for as well as the results of the adoption of superheated steam on the Prussian State Railways, of which he is locomotive superintendent. The continually increasing demand upon modern rolling stock and the limitations imposed by bridge and permanent way restrictions make the problem of the locomotive superintendent of increasing the hauling power of his engines without materially increasing their weight a difficult one. The enormous increase of coal bills also directs the attention of the management to the necessity of economy in fuel; and the use of superheated steam at temperatures of 600 deg. Fah. and upward, ten years ago considered impossible at least on locomotives, seems from the experience of the Prussian State Railways to be the cheapest and simplest solution of the problem. Much of the success of that application is due to the care and enthusiasm of Mr. Garbe and the thoroughness of the German engineer is admirably exemplified in the manner in which he presents his experience and deductions in this book.

THE TEXT BOOK OF GENERAL BACTERIOLOGY. By Edwin O. Jordan, Ph.D. Philadelphia: W. B. Saunders Company, 1908. 8vo.; pp. 557. Price, $3 net.

This book is the outgrowth of lectures given to students in the University of Chicago during the past few years. The subject is one that the writer believes should find a place in every general scientific course. The book is chiefly of professional interest to the medical student, but the subject also bears technical relation to household administration, to agriculture, to sanitation and sanitary engineering, and the various industries and technological pursuits. For the general scientific student and reader bacteriology presents certain aspects that tend to widen the outlook upon a variety of human interests. The reader who wishes to acquire greater familiarity with the subject will find some bibliographical references given as a sort of first aid to the investigator. It is an excellent piece of book making, illustrated with well-executed engravings. It is well printed on good paper.

PRINCIPLES AND PRACTICE OF AGRICULTURAL ANALYSIS. Vol. II. Fertilizers and Insecticides. By Harvey W. Wiley, A.M., Ph.D. Easton, Pa.: The Chemical Publishing Company, 1908. 8vo.; pp. 680. Price, $4.50.

No one is better qualified to speak with authority than the Chief of the Division of Chemistry of the Department of Agriculture. In this volume an attempt has been made to treat the subject of fertilizers and fertilizing materials in the manner followed in the first volume with soils. The general principle of fertilizer manufacture and application have been presented in so far as they seem to throw light on the rational method of examination and analysis. The standard methods of analysis in use in this and other countries have been presented with sufficient fullness for the guidance of the skilled worker and the information of the student. This is the second edition of the book, and all the matter in the volume has been rewritten and brought down to date. New ventures of moment are those relating to the production of nitric acid for manurial purposes from cyanamid and by direct electric oxidation of nitrogen of air. A chapter on the analysis of insecticides has also been added. While not intended in any way as a library guide, Dr. Wiley hopes that this volume may be even more highly appreciated than in its first form by the student, the investigator, and the teacher.

"HÜTTE": DES INGENIEURS TASCHENBUCH. Proceedings of the Akademischen Verein Hütte. 3 vols. Berlin: Wilhelm Ernst & Son, 1908.

These pocket books are not limited, as one might imagine from their source, to the technology of iron works or even the use of their products but cover in the first two volumes every possible need of the mechanical engineer, marine engineer, and shipbuilder. The tendency of other recent pocket books has been toward condensation and making them more literally books for the pocket, but the Germans go in the other direction and there are parts of these admirably thorough works which might be taken as text books of the subjects discussed.

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FOR SALE.—Patent No. 882,766. Siding attachment for plows. Can be put in manufacturing order at once, and made by any one in this line. Will yield a good profit. Address A. T. McIlwain, Abbeville, S. C.

Inquiry No. 8735.—For parties making a still for the purpose of extracting alcohol from saw-dust.

FOREIGN PATENTS for meritorious and valuable inventions negotiated upon a contingent basis. Absolutely no fees accepted. References given and required. L. Henry, 141 Broadway, New York.

Inquiry No. 8779.—For parties manufacturing gas, gasoline, steam engines and boilers; also packing and mineral wool, steam supplies, iron and lead pipe, power transmission machinery and steam fitters' tools.

FOR SALE.—Self-heating roller iron (hand operated). Heated by gas, gasoline, electricity, kerosene or charcoal. This invention fills the want of a rapid and easily operated iron for flat work. Is the best thing on the market for lace curtains and embroidery. For domestic and small laundry business it beats all. For particulars address N. C., care Box 773, New York.

FOR SALE.—Patent No. 888,053. Propeller for vehicles, giving 90 per cent. efficiency, will produce a greater speed with less fuel consumption than others. Can be used on all classes of vessels. For particulars address August Ahlbrecht, 610 River Ave., Pittsburg, Pa.

HELP WANTED.

MEN WANTED QUICKLY by big Chicago mail order house to distribute catalogues, advertise, etc. $25 a week, $60 expense allowance first month. No experience required. Manager, Dept. 73, 385 Wabash Ave., Chicago.

Inquiry No. 8847.—Wanted laundry tubs.

WANTED: A PARTNER with capital to help develop and manufacture a patent propelling device for boats and vessels. Address Capital, Box 773, New York.

Inquiry No. 8859.—Wanted to buy steel gray paint suitable for gasoline engines.

TYPEWRITERS.

YOUR CHOICE OF A MACHINE from $10 upward. Franklin, Hammond, Remington, Oliver, Monarch, L. C. Smith, Underwood, Smith Premier, Blickensderfer. Agts. wanted. Stand. Typewriter Ex., 23 Park Row, N. Y.

Inquiry No. 8863.—Wanted to buy machine to separate pecan nuts into sizes and dust the dirt off.

LISTS OF MANUFACTURERS.

COMPLETE LISTS of manufacturers in all lines supplied at short notice at moderate rates. Small and special lists compiled to order at various prices. Estimates should be obtained in advance. Address Munn & Co., List Department, Box 773, New York.

Inquiry No. 8868.—Wanted to buy nickeloid for buttons.

A LIST OF 1,500 mining and consulting engineers on cards. A very valuable list for circularizing, etc. Price $15.00. Address Munn & Co., List Department, Box 773, New York.

Inquiry No. 8869.—Wanted to buy straw making machinery.

MISCELLANEOUS.

UNITARIAN LITERATURE, including sermons and weekly publications, sent free, on application to Miss Peck, 106 George Street, Providence, R. I.

MECHANICAL DRAWINGS by mail. Send sketch and description. J. H. Blakey, 84 Washington St., Chicago

Inquiry No. 8871.—Wanted to buy chimneyless kerosene burners.

Inquiry No. 8874.—For manufacturers or importers of metal known as "Kaiserzium."

Inquiry No. 8877.—For manufacturers of convex glass for pictures.

Inquiry No. 8878.—For factory making paperout of peat.

Inquiry No. 8879.—For the manufacturers of steam air pumps such as are used on the Conrad steam cars.

Inquiry No. 8880.—For manufacturers of portable shower baths.

Inquiry No. 8884.—Wanted to buy second-hand "Gamometer Multigraph."

Inquiry No. 8885.—For manufacturers of the "Mysterious Ball" like that of Mr. Lepere's—a man in a ball.

Inquiry No. 8886.—For makers of bean harvesting machines.

Inquiry No. 8889.—Wanted to buy a machine which breaks and divides apricot stones.

Inquiry No. 8890.—For manufacturers of a milking machine.

Inquiry No. 8891.—For manufacturers of a patent vise with an attachment for boring small holes.

Inquiry No. 8893.—Wanted to buy a second-hand adding machine.

Inquiry No. 8894.—For manufacturers of an automatic camera for making photographs on pin trays, etc.

Inquiry No. 8896.—For the manufacturers of earthenware vessels.

Inquiry No. 8897.—For the manufacturers of the "Lid on" can opener.

Inquiry No. 8898.—For manufacturers of kites.

Inquiry No. 8899.—For manufacturers of steel balls used for cutting sapphires or jewelry and also corn crisp used in cleaning and polishing sapphires.

Inquiry No. 8900.—For the address of Electric Service Supplies Co.

Inquiry No. 8901.—For the address of the Electrose Manufacturing Co.

Inquiry No. 8902.—For the manufacturers of an axle grease known as "Ironside."

Inquiry No. 8903.—For firms dealing in motor cars to suit Indian climate.

Inquiry No. 8904.—Wanted to buy new or second hand machinery for making "bow type," mouse and rat trap springs and wire parts, single machine or full outfit.

Inquiry No. 8906.—For the address where Benz Gasoline Engine is built.

Inquiry No. 8907.—For address of New England Coil Winding Co.

Inquiry No. 8908.—For a dealer in tapes and cords for Venetian blinds.

Inquiry No. 8909.—For a machine to paint shade or blind rollers.

Inquiry No. 8910.—Wanted to buy a device for mending tin-ware without soldering.

Inquiry No. 8911.—Wanted to buy steamfitter's tools and screw-cutting lathes.

Inquiry No. 8912.—Wanted to buy an apparatus for counting currency of different denominations.

Inquiry No. 8913.—Wanted to buy machinery for shelling castor beans.

Inquiry No. 8914.—Wanted to buy a kettle without a bail but has a handle on the lid and clasps on the side to hold the lid. The kettle to be about 5½ inches high and 7 inches in diameter.

Inquiry No. 8915.—For parties who sell plans and specifications for building ice boats.

Inquiry No. 8916.—Wanted to buy a shoe-shiner that can be attached to a wall with a last to fit any man's shoe.

Inquiry No. 8917.—For a manufacturer who will make palmetto brushes to order.

Inquiry No. 8918.—For manufacturers of "Wydt's Electro-Catalytic Sparking Plug.

Mine timber, Z. Z. Ansbach 907,554
Mining shearing machine pick, R. C. Hoffman 907,360
Mirror, R. T. Sollis 907,420
Mixing machine, F. A. Sicklestel 907,297
Mobile hydrometallurgical apparatus, Blaisdell & Brown 907,309
Mold, Harding & Brubeck 907,494
Mold-making apparatus, L. J. Wing 907,212
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Mower, lawn, D. G. Treat 907,198
Mower, lawn, Keith & Early 907,371
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Music leaf turner, J. Wyatt 907,214
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Musical instrument, stringed, S. W. Buercklin 907,679
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Necktie frame, A. Perrilliat 907,398
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Pan and holder, evaporating, H. A. Stemmer 907,195
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Paper clip, A. W. Friskey 907,588
Paper feeding machine attachment, J. Kleidmann 907,610
Paper file, C. Slemin, Jr. 907,647
Parachute, rocket, N. W. Aasen 907,112
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Photographic printing frame, J. Goddard... 907,592
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Piano player automatic attachment, F. P. Smith 907,707
Picture hook hanger, C. W. Holtz 907,599
Pie trimmer and crimper, J. W. Butler 907,456
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Plow, L. M. & J. D. Andrews 907,306
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Plow flanger, snow, H. E. Parsons 907,701
Plow soil pulverizing attachment, Kaufmann & Kramer 907,505
Plow, traction, S. N. E. Priddy 907,173
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Power hacksaw, R. C. Berry 907,445
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Printing press, J. M. Thomas 907,538
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Pump, hydraulic air, A. S. Gray 907,341
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Rail handling machine, B. F. Brown 907,455
Rail joint and nut lock, combination, C. W. Bridegum 907,564
Railway lantern, A. McDonald 907,267
Railway rail joint, M. J. MacKinnon 907,697
Railway tie, C. W. Bridegum 907,565
Railway tie, steel, A. W. Jenkins 907,502
Range and stove water heater, B. B. Culver 907,469
Ratchet coupling, automatic, R. H. Danzinger 907,574
Razor, G. L. Truitt 907,424
Record and file, card, W. O. Johnson 907,244
Recording device, A. B. Herrick 907,235
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Seed cleaner and grain separator, Hatfield & Wullenweber 907,348
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Sewing machine, W. M. Ammerman 907,436
Sewing machine, E. G. Fellows 907,485
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Sewing machine trimming cutter, J. M. Merrow ..... 907,618 to 907,624
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Shoe tree, A. H. Baker 907,115
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Show case, fly and dust proof, W. R. Kirk 907,609
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Telephone system, A. T. Dyson 907,581
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Vehicle seat back, detachable, H. Egner... 907,325
Vehicle shock absorber, L. Renault 907,644
Vehicle tire, J. D. Sower 907,191
Vehicle, traction, C. W. Coleman 907,462
Vehicle wheel, motor, W. H. McDowell... 907,268
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Vending machine, coin controlled, A. C. O. Bock 907,449
Ventilator. See Car ventilator.
Vibrator, H. Larsen 907,377
Vulcanizing apparatus, portable, M. Schiele 907,532
Wagon and truck pole support, C. D. Helle 907,349
Wagon, dumping, G. B. Kilmer 907,150
Waist, nursing, C. Rouff 907,290
Wall socket base, S. E. Steele 907,194
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Washstand, folding, E. F. Tilley 907,423
Waste overflow and trap, J. R. Williams... 907,211
Watch movement, G. Nutting 907,170
Water closet, H. S. Rumsey 907,409
Water heater, A. L. Gibson 907,590
Water heating system pressure regulator, W. M. Walcutt 907,545
Wave transmitting device, sound, A. Dare. 907,320
Wells, filters, etc., molded strainer or screen for, J. R. Freeman 907,328
Wheel, R. Domman 907,475
Wheel spoke, wire spoked, J. V. Pugh 907,282
Wheel tire, elastic, G. Bardet 907,307
Whip fastener, H. Lowery 907,514
Window blinds and shades, combined automatic duster and brake for, F. J. Watkinson 907,429
Window cleaning device, A. S. Anderson... 907,553
Window construction, removable, O. Jaeger. 907,367
Window screen, G. N. Baker 907,439
Wire bound box, E. E. Flora 907,586
Wire fabric, O. R. Hunt 907,602
Woodworking machine, P. J. Joecken 907,242
Wrench, T. J. Hammond 907,346
Wrench, V. J. Coughenour 907,466
Writing tablet, M. A. Drees 907,477
Zinc extracting apparatus, E. H. Shortman. 907,416

DESIGNS.

Branch box for insulated electric wires, M. Havens, Jr. 39,707, 39,708
Brooch pin, H. W. Fishel 39,692
Brushes, mirrors, and similar toilet articles, back for, G. H. Berry 39,717
Canes, pins, or similar articles, head for, Bosworth & Chestnutwood 39,715
Chafing dish, A. H. S. Swan 39,694
Chafing dish and stand, Strassburger & Nelson 39,695
Chafing dish stand, A. H. S. Swan ... 39,696, 39,697
Chair side standard, opera, J. Salomon. 39,711, 39,712
Metal mesh fabric, F. J. Lightbody 39,706
Neck ruff form, T. P. Taylor 39,716
Piano case, L. D. Perry 39,713, 39,714
Sheet metal pipe elbow, H. F. Voshardt.... 39,722
Shell for lighting fixtures, H. E. Watkins, 39,698, 39,705
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Type font, S. M. Weatherly 39,718, 39,719
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Beverage and syrup for making the same, carbonated syrup, B. F. Smith..... 71,913
Beverage, non-alcoholic carbonated ginger, D. J. Bass 71,956
Beverages, certain alcoholic, R. Exner..... 71,980
Biscuits, Peek, Frean & Co..... 71,902
Biscuits, National Biscuit Co..... 71,968
Blacking, shoe polish, and leather dressing, Everett & Barron Co. 71,874
Blood purifier, Dalmatia Co. 71,916
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Bottles, vacuum-insulated, G. P. Van Wye. 71,972
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"Corning's Canadian Type Whiskey," for blended whisky, Corning & Co..... 14,562
"Corylopsis," for talcum powder, Calisher & Co. 14,569
"Gold Crown Beer," for beer, Eureka Brewing Co. 14,563
"Huebner's Tru-Bru." for a non-alcoholic beverage, Smith Lithographic Co..... 14,564
"Marvel Bread," for bread, F. T. Short.. 14,567
"Preferred Stock," for oranges, Bryn Mawr Heights Citrus Ass'n 14,568
"Superior Sweet Peas and Nasturtiums," for sweet-pea and nasturtium flowers, Mandeville & King Co. 14,570
"Varus," for cigars, W. A. Depue..... 14,561

PRINTS.

"Champion Harvesting Machines," for harvesting machines, Hayes Lithographic Co. 2,404
"He's Your Daddy," for wheat breakfast food, Cream of Wheat Co..... 2,400
"Santa Claus," for safety razors, Auto Strop Safety Razor Co..... 2,401
"The Comptometer," for adding machines, Commercial Art Engraving Co. 2,402
"The Signet of Furniture Quality," for furniture, F. Mohr & Co. 2,403

A printed copy of the specification and drawing of any patent in the foregoing list, or any patent in print issued since 1863, will be furnished from this office for 10 cents, provided the name and number of the patent desired and the date be given. Address Munn & Co., 361 Broadway, New York.

Canadian patents may now be obtained by the inventors for any of the inventions named in the foregoing list. For terms and further particulars address Munn & Co., 361 Broadway, New York.