

Thursfield's idea of the plan of attack at Trafalgar differs somewhat from those commonly accepted; but after reading what he has to say, the impression is deepened that at Trafalgar, as in many other fights of that day, the plan of battle as outlined before the fight was greatly modified to suit the exigencies of the hour. This work will possess a particular interest for American readers, because so large a portion is devoted to an appreciative survey of the achievements of John Paul Jones. Mr. Thursfield is the first English writer of prominence to remove the stigma which was attached to Jones's name by the calumnious writers of his day, and reveal him as the admirable character that he was. One of the most valuable chapters is that in which full justice is done to Admiral Duncan, the hero of Camperdown, whose exploits and general professional ability seem never to have received adequate recognition until late in his career.

SECOND APPENDIX TO THE SIXTH EDITION OF DANA'S SYSTEM OF MINERALOGY.
By Edward S. Dana and William E. Ford. New York: John Wiley & Sons, 1909. 8vo.; 114 pp. Price, \$1.50.

During the ten years of mineralogical investigation which this appendix covers, a large amount of material has been published. An evidence of this is to be found in the two hundred new names which are given in the classified list in the introduction. About sixty of these new names on account of the completeness of their descriptions seem to have a warrant for their acceptance as new species. The other names are either of imperfectly described minerals or variety names of well-recognized species. The descriptions of the new species included in this book are given concisely but completely. It was found, however, impracticable to follow the plan adopted in the System and the First Appendix of recalculating all the angles and crystal constants of the new species. This has been done in a few cases, but in the majority of the descriptions the figures of the authors have been accepted without verification. In the cases of some of the new species with complex crystals it has been impossible to give the complete lists of the forms identified upon them. The method followed has been to give the more common and prominent forms and to indicate the number of those not listed.

THE MAKING OF SPECIES. By Douglas Dewar, R.A., and Frank Finn, B.A. New York: John Lane Company, 1909. 8vo.; 400 pp. Price, \$2.50, postage extra.

The authors' aim in writing this book has been twofold. In the first place, they have attempted to place before the general public in simple language a true statement of the present position of biological science, and in the second place they have endeavored to furnish the scientific men of the day with food for reflection. As the British nation seems to be slowly but surely losing, through its conservatism, the commercial supremacy it had the good fortune to gain during the last century, so is it losing, through the unwillingness of any of her scientific men to keep abreast of the times, that scientific supremacy which she gained in the middle of the last century by the labors of Charles Darwin and Alfred Russel Wallace. It is not among Englishmen but among Americans and Continentals that the world has to look for advanced scientific ideas. The authors fear that this book will come as a rude shock to many scientific men. What they attack is not Darwinism, but that which is erroneously called Neo-Darwinism. Neo-Darwinism is a pathological growth on Darwinism which, we fear, can be removed only by a surgical operation. The book is a beautifully printed one and will doubtless interest all naturalists.

THE ELEMENTARY PRINCIPLES OF INDUSTRIAL DRAWING. By George Jepson. Oblong 12mo.; 28 pp.; 11 plates.

The aim of this little book is to present the subject of industrial drawing, so that a student after he has become familiar with its contents, will have mastered all the essential principles as applied to mechanical and architectural drawing. While the book presents all the principles of industrial drawing, it is not a graded course of lessons, although if desired an elementary or more advanced course can be compiled from its contents. The author is an instructor in descriptive geometry, machine drawing, and shop work in the Massachusetts Normal Art School, and was for many years master of the Evening Science School of the city of Boston. The book appears to be an excellent one.

HENDRICKS'S COMMERCIAL REGISTER OF THE UNITED STATES FOR BUYERS AND SELLERS. New York: Samuel E. Hendricks Company, 1909. Quarto; 1220 pp. Price, \$10.

This is the eighteenth annual edition of Hendricks's Commercial Register of the United States. It is a complete and reliable annual index of industries, containing over 350,000 names and addresses of buyers and 33,000 business classifications. Full lists are given of manufacturers and dealers in everything employed in the manufacture of material, machinery, and apparatus used in these vast industries, from the raw material to the manufactured article and from the producer to the consumer. It is indispensable as a work of

reference for the architect, engineer, contractor, manufacturer, jobber, retailer, exporter, purchasing agent, and for the railroad machine shop, foundry, mill, factory, mine, and plantation. We have occasion to use several copies of this book, and it answers a vast number of our inquiries for manufacturers. It is a book which we can thoroughly commend.

Legal Notices

PATENTS

INVENTORS are invited to communicate with Munn & Co., 361 Broadway, New York, or 625 F Street, Washington, D. C., in regard to securing valid patent protection for their inventions. Trade-Marks and Copyrights registered. Design Patents and Foreign Patents secured.

A Free Opinion as to the probable patentability of an invention will be readily given to any inventor furnishing us with a model or sketch and a brief description of the device in question. All communications are strictly confidential. Our Hand-Book on Patents will be sent free on request.

Ours is the Oldest agency for securing patents; it was established over sixty years ago.

MUNN & CO., 361 Broadway, New York
Branch Office, 625 F St., Washington, D. C.

INDEX OF INVENTIONS

For which Letters Patent of the United States were Issued for the Week Ending

October 12, 1909,

AND EACH BEARING THAT DATE

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

Abdominal support, J. S. Allred.	936,752
Advertising device, C. A. Myers.	936,844
Aeroplane, C. W. Cheney.	936,303
Air brake sys em, G. E. Congdon.	936,415
Air compressor, J. H. Dalley.	936,609
Air compressor, H. J. Rohrbacher.	936,813
Air compressor, A. Neumann.	936,932
Air cushion seat, D. B. O'Kelly.	936,934
Air ships, propeller mechanism for, C. M. Lee.	936,916
Alfalfa shredder, W. B. Kraft.	936,783
Anchor, ground, Simpson & Franchot.	936,824
Animal trap, Dunn & Vought.	936,429
Animal trap, H. M. Voter.	936,836
Annealing furnace, F. H. Daniels.	936,811
Armor plates and other articles of steel and alloys of steel, manufacture of, F. G. Little.	936,315
Ash sieve, D. B. Preston.	936,737
Audion pipe receivers, magnetic regulator for, C. E. Williams.	936,503
Auger, earth, F. Palmer.	936,350
Automobile, B. A. Alperin.	936,585
Automobile attachment, H. S. Delamere.	936,866
Axle lubricator, J. N. Rickards.	936,740
Bale tie, H. O. Fry.	936,882
Bales, cotton marker for, Long & Otidys.	936,918
Balloon, J. A. Steinmetz.	936,680
Bank, F. E. Jordan.	936,780
Barrels and other like containers, lining for, T. Scherf.	936,817
Basin plug, wash, J. D. Winfree.	936,393
Bearing, roller, H. V. Smith.	936,484
Bearing, yielding, S. C. Anker-Holth.	936,753
Bearings, means for producing lubricating, F. J. Randall.	936,739
Bed, S. Ellery.	936,873
Bedclothing airing device, A. H. Stetson.	936,827
Bed, cooling, H. W. Hock.	936,897
Bed springs, device for tightening wire, F. B. Townsend.	936,958
Beehive, D. I. Comsa.	936,604
Bellows support, J. Sampere.	936,670
Belt cleaner, J. A. Bowen.	936,297
Belt cleaner, T. Healey.	936,887
Belt for transmitting power, laminated, Gondole & Myers.	936,532
Belt guide, G. H. Tenpas.	936,630
Birth, sleeping-car, P. Rublovitch.	936,814
Bevel, square, and calipers combined, J. J. Szymanski.	936,746
Beverages, manufacturing fermented, E. W. Kuhn.	936,328
Billiard cue, W. M. Dunn.	936,614
Binder and the like, looseleaf, J. H. Hewitt.	936,891
Blank feeding device, A. F. Jones.	937,001
Blast furnace, E. B. Cook.	936,308
Block. See Keel block.	
Blowpipe, J. H. Flower.	936,769
Boat plug, J. W. Danford.	936,312
Boat releasing device, automatic, C. Huat.	936,632
Bobbin spindle, C. Jenkins.	936,904
Body protector, C. W. Fraser.	936,442
Boiler check, double valve, Schaefer & Hills.	936,571
Boiler furnace, E. H. Montgomery.	936,651
Boiler superheater, steam, F. J. Cole.	936,412
Boil puller, E. Blomberg.	936,755
Book, loose leaf, L. D. Hamacher.	936,448
Book support, adjustable, B. T. Phelps.	936,938
Book, triplicate sales, W. G. Wilson.	936,504
Boot and shoe cleaner, Predmore & Estell.	936,662
Boots and shoes, elastic tread for, P. W. Pratt.	936,810
Booths or the like, parcel, cash, and wind protecting attachment for, J. C. Moore.	936,551
Boring bar, J. J. Steinbrunn.	936,955
Boring machine, log, G. H. Lambert.	936,330
Boring spindles, outboard bearing for, C. I. Shirley.	936,576
Bottle closure, H. W. Maurer.	936,467
Bottle holder, infant's feeding, L. G. Black.	936,293
Bottle, non-refillable, J. S. Bromhead.	936,860
Bottle opener and cigar cutter, combined, J. L. Sommer.	936,678
Bottle stopper, E. J. Bricker.	936,515
Bowl holding rack, A. Indinger.	936,725
Box or can, F. Westerbeck.	936,841
Box or carton, G. B. Conley.	936,986
Braided fabric, Thun & Lucke.	936,482
Braided fabric and making it, H. Z. Cobb.	937,021
Braiding machine, R. C. Rahn.	936,356
Brake applying device, automatic, E. P. Jessop.	936,905
Brake rod coupling jaws, G. F. Hinkens.	936,453
Bread box, Thompson & Morrison.	936,957
Bread mixing machine, E. Mechini.	936,920
Brush for cleaning glasses, hand, O. Bethold.	937,019
Brush, polishing, J. A. Brewer.	936,809
Brushing machine, shoe, G. E. Russell.	936,948
Buckle, belt, L. M. Rosenberg.	936,565
Building construction, O. N. Mueller.	936,342
Bulb support, E. Gorman.	936,446
Bullet mold, F. L. Putney.	936,475
Bust developer, J. G. Eganhouse.	936,434
Cabinet, ironing board, B. A. Stocking.	937,014
Cabinet, weight, M. C. Brown.	936,406
Cables or conductors, machine for making, G. R. Kress.	936,728
Cableway, portable, J. H. Dickinson.	936,428
Calendar pad, H. T. Avery.	936,848
Camera focusing hood, E. P. Comrie.	936,307
Car cover, oil waste, P. Anderson.	936,509
Car heading machine, G. H. Stewart.	936,956
Cane cutter, L. H. Bread.	936,404
Caoutchouc and similar substances, apparatus for washing, F. Kemper.	936,635
Cape, W. W. Pelton.	936,351
Car and engine retracker, J. I. Ford.	936,439
Car coupling, H. J. Dean.	937,023
Car door, grain, A. J. Denton.	936,764
Car fender, G. H. Carter.	936,703
Car fender, C. T. Koenigsberg.	936,782
Car fender, H. Simpson.	936,953
Car squeeze, O. H. Dempsey.	936,923
Car ventilator, railway, J. E. Ward.	936,886
Cars, supplemental wheel for motor, A. E. Whitney.	936,750
Carburetor, K. Maybach.	936,327
Card holder, O. A. Bremer.	936,756
Carpet fastener, stair, W. A. Price.	936,940
Carpet securing means, M. A. V. Odell.	936,347
Carrier. See Garment carrier.	
Carrying mechanism, R. Rein.	936,942
Casting machine, Soss & Christiansen.	
Casting metal pots, etc., mold for, J. Power.	936,378
Cattle guard, G. W. Youngs.	936,939
Cement process and apparatus for the manufacture of Portland, C. F. McKenna.	936,555
Child's chair, J. E. Wallace.	936,685
Chuck, J. A. Leland.	936,644
Chuck for grinding stem ware, A. B. Knight.	936,912
Claw cutting machine, A. H. De Voe.	936,424
Clothesline holder, P. Curran.	936,420
Clothesline prop, W. F. Briggs.	936,982
Clutch electric control, friction, H. M. Abernethy.	936,284
Coat, H. H. Peary.	936,805
Coating metallic surfaces, C. J. Kirk.	936,637
Cock, ball, H. S. Rumsey.	936,742
Cock, safety, Swimmer & Neelen.	936,581
Coffee free from caffeine, obtaining, K. H. Wimmer.	936,392
Coll support, I. L. Griffith.	936,622
Combination and bath fitting, Martin & Brains.	936,791
Commutator brush, V. G. Apple.	936,692
Computing and recording machine, W. H. McFarland.	936,652
Concentrating apparatus, G. F. Rendall.	936,583
Concrete burial vaults, mold for casting, C. M. Brown.	936,861
Concrete mixing machine, W. M. Ewing.	936,375
Concrete railway tie, J. P. Donovan.	936,428
Concrete railway ties, apparatus for molding, J. P. Donovan.	937,026
Concrete steel constructions, fixture support for, L. P. Alford.	936,690
Concrete walls, mold construction for, J. Mueller.	936,798
Concrete work in the water, building, E. H. Kirk.	936,798
Condenser, J. Anderson.	936,638
Controller, automatic, F. R. Fishback.	936,878
Conveyer, B. M. Steele.	936,745
Conveyer, C. W. Levally.	936,917
Cooking utensil, F. A. Musser.	936,343
Copper from cuprous residues, recovery of, D. Grispo.	936,762
Cotton chopper, A. D. Baker.	936,693
Crate, folding shipping, E. C. Rollins.	936,984
Crate, folding, E. Benson.	936,696
Crate, folding shipping, J. B. Porter et al.	936,735
Cream dipper, A. C. Butts, Jr.	936,757
Crystallizers, stirrer for, Crozier & Dyer.	936,608
Cuff shaper, S. M. Cole.	936,761
Cultivator, D. F. Deppe.	936,765
Cultivator, H. B. Reynolds.	936,943
Cultivators and other agricultural implements, attachment for riding, C. N. Simpson.	936,823
Current motor, alternating, F. Eichberg.	936,616
Curtain fastener, J. Grizzell.	936,884
Curtain holding mechanism, window, Donehue & Taylor.	936,427
Curtain roller, H. Tripp.	936,387
Curtain roller and curtain pole support, extendible combined, J. W. Thoreau.	936,583
Cuspidor, Gregory & Shumway.	936,774
Cutlery polisher, P. E. Shoe.	936,371
Cutting shears, J. R. Searight.	936,574
Cycle attachment, motor, H. T. Adams.	936,846</td