INDEX.

	PAC
PAGE PAGE	Letters; Water for Nothing;
Adulteration, and How to Detect it 560	Electricity and Plants; Napoli's
Album, On Illuminating an 597	
All about Oban 730 American Breakfasts 85 American Tea-Table, An 466 April Son 305	Pantograph or— Rain-Water Percolator; Novelties in Lighting; Tisley's Harmono- graph; A Doctor's Use of the Carrier-Pigeon; Signalling by Illuminated Steam: The Whist-
American Breaklasts	in Lighting: Tisley's Harmono-
	graph: A Doctor's Use of the
April Song 305 Artist's Trip through the Clouds 152	Carrier-Pigeon : Signalling by
Artist's Trip through the Clouds 152	Illuminated Steam; The Whist-
Art-Furnishing for Modern Houses 603,718 Art of Fern-Hunting 563	ling Buoy; Fireless Locomo- tives; A Practical Calculating Machine; An Automatic Venti- lator; A Little-Known Test for
	tives: A Practical Calculating
Daws Despreher	Machine: An Automatic Venti-
Wester Lete than Never"	lator : A Little-Known Test for
Bare Branches 241 "Better Late than Never" 416 Beach, On the 556 Board of Trade 82 Breaking the News 543 By the Sea 689	Health; A New Method of Raising Sunken Ships; A Steam-Sledge; An Invulnerable Ship; A Salt Extractor; Can
Dead, of Trade	Raising Sunken Ships; A
Desching the News	Steam-Sledge : An Invulnerable
By the Sea 689	Ship : A Salt Extractor ; Can
By the Sea 689	we see solling a new Dishi-
Colm Day A 502	fectant; Reading by Electric Light; A New Spring Mattress;
Calm Day, A 592 Can Animals Talk? 473 Candles to Gas, From 225	Light : A New Spring Mattress ;
Can Animals Talk? 473 Candles to Gas, From 225 Catering for Children's Parties 43, III	Deprez's Electric Motor; An Electric Station-Sign for Rail-
Candles to Gas, From 225 Catering for Children's Parties 43, 111	Electric Station-Sign for Rail-
Chargilposs as a Madicine On 271	way Trains; Artificial Onyx; A Resonant Tuning-Fork; A New Industry; Ice Made by Means of Ether; Of Interest to English
Cheerfulness as a Medicine, On 371 Chimney at Lisgarvan Mill, The 470	Resonant Tuning-Fork ; A New
Christman Fun	Industry: Ice Made by Means
Christmas Eve 21 Clutterbuck, Nicholas 600	of Ether : Of Interest to English
Calleges for Women	Mariners 123—1
Christmas Eve 21 Clutterbuck, Nicholas Colleges for Women 108 Coral Fishers, A Town of 228	Tempering Metals in Vacuo; A New Desk and Bench; Steam
Coral Fishers, A Town of	New Desk and Bench : Steam
Day of my Tife in India A 701	Tram-Cars; A Strong Electro- Magnet; A Price-Balance; An
Day of my Life in India, A 724	Magnet : A Price-Balance : An
England as It Is 489	Automatic Fire-Lighter: Making
	Automatic Fire-Lighter; Making the Diamond; Cats as Carriers; Detaching Ships' Boats; Raising Sunley Ships by Balloons; The
Evening Picture, An 759	Letaching Ships' Boats : Raising
Every House its Own Museum 665	Sunken Ships by Balloons: The
T	Sunken Ships by Balloons; The Various Kinds of Milk; Novel
Feathers in the Scale 76	Uses of the Electric Light : The
Feathers in the Scale 70 Fern-Hunting, Art of 563 Few German Cures, A 301 Final Faith 343 First Cuckoo 357 Fish-Culture in Great Britain 499 Flowers and their Friends 279 Forgive and Forget 438 From Cardles to Gas 225	Uses of the Electric Light; The Cable Railway at Geisbach; Ex-
Few German Cures, A 301	plosion of a Diamond : Dephos-
Final Falth 343	plosion of a Diamond; Dephosphorising Iron; The Proposed
First Cuckoo 55/	Canal between the Sea of Azoff and the Caspian Sea; A Cure for Catarrh; Paper Sheathing for Ships; A Gas and Water
Flavors and their Friends 270	and the Caspian Sea : A Cure
Foreign and Forest	for Catarrh : Paper Sheathing
Forgive and Forget 438 From Candles to Gas 225	for Ships: A Gas and Water
I fold California to California	Geyser; Automatic Postal Indi- cator; A Market for Useless Fungi; Soot-Water for Roses;
From Gas to Electricity 282	cator: A Market for Useless
Garden and Orchard in December,	Fungi: Soot-Water for Roses;
The 12	rung; Soot-Water for Noses; The Luray Cavern; Edible Ferns; A New American Saw 187— Photographing under Water; Sugar from Rags; New Road Locomotive; The Dust of the Street; An Ear-Fitting Tele- phone; New Sapphire Mines; Metalline: A New Photographic
	Ferns: A New American
Garden and Orchard in January, The 116 Garden in February, The 180 Gardening in March 239 , April 302 , May 368 , June 425 , July 475 , August 539 , September 618 , October 684 , November 734	Saw 187—
Cardening in March	Photographing under Water;
April 202	Sugar from Rags; New Road
,, May 368	Locomotive; The Dust of the
June 105	Street : An Ear-Fitting Tele-
,, ,, July 475	phone: New Sapphire Mines;
), July 4/3	
September 618	Process; A Geographical Game;
October 684	Captive Light; A New Remedy
,, November 734	Captive Light; A New Remedy for Scurvy; A Speaking Ma-
,, ,, November 734 Gas to Electricity 282	chine Phosphorescent Photo-
GATHERER THE	graphs; A New Buoyant Life- Saving Rocket; A Recording Compass; A Rapid Cure for
The Hydromotor · Window-Clean-	Saving Rocket; A Recording
ing and Ventilation: An Inex-	Compass; A Rapid Cure for
pensive Ventilating System: A	Colds; Signalling Lighthouses;
ing and Ventilation; An Inexpensive Ventilating System; A New Self-Acting Invalid Carriage; Watching the Circulation of Pleads Alberthy, Wood	Colds; Signalling Lighthouses; New Electric Lamps 252— New Commercial Plants; A Glyce-
riage: Watching the Circulation	New Commercial Plants; A Glyce-
	rine Barometer; For the Benefit of the Milkmaid; A Mechanical
A Self-Acting Bed-Rest for	of the Milkmaid; A Mechanical
A Self-Acting Bed-Rest for Invalids; The Flexible Shaft; Cutting Glass with Scissors;	Watch-Dog; Crystalline Forms
Cutting Glass with Scissors :	Watch-Dog; Crystalline Forms in Canada Balsam; Coloured
Molecular Electric Light; The	Photographs; The Pedomotor;
Pottery - Tree : Fresh - Painted	Photographs; The Pedomotor; Telegraphing by Dynamo-Elec- tric Currents; Perini's Plane-
Pottery - Tree; Fresh - Painted Rooms; Postal Certificates for	tric Currents; Perini's Plane-
The second secon	The second secon

PAGE Vater for Nothing; and Plants; Napoli's 61-64 Percolator; Novelties ; Tisley's Harmono-Doctor's Use of the eon; Signalling by I Steam; The Whist-; Fireless Locomo-Practical Calculating An Automatic Ventiittle-Known Test for A New Method of Sunken Ships; A Sunken Ships; A dge; An Invulnerable Salt Extractor; Can ound? A New Disin-Reading by Electric New Spring Mattress; Electric Motor; An Station-Sign for Rails; Artificial Onyx; A Tuning-Fork; A New Ice Made by Means Of Interest to English Of Interest to English 123-128 Metals in Vacuo; A and Bench; Steam ; A Strong Electro-A Price-Balance; An Fire-Lighter; Making nd; Cats as Carriers; Ships' Boats; Raising ips by Balloons; The Linds of Milk; Novel ne Electric Light; The lway at Geisbach; Exinway at Geisbach; Ex-fa Diamond; Dephos-Iron; The Proposed tween the Sea of Azoff Caspian Sea; A Cure rrh; Paper Sheathing ; A Gas and Water Automatic Postal Indi-Market for Useless oot-Water for Roses; Cavern; Edible New American 187-192 A New Buoyant Life-Rocket; A Recording ; A Rapid Cure for ignalling Lighthouses; ctric Lamps ... 252—256 tercial Plants; AGlycemeter; For the Benefit lkmaid; A Mechanical og; Crystalline Forms

PAGE tarium; Heating Wheel-Tires by Gas-Jets; Coral Houses; Na-tural Cement; Ground Honey; Extraordinary Length of Hair; A New Balance Supply-Valve for Cisterns; A Spark Arrester; Artificial Diamonds; Storing Electricity; Photographing on Leather; An Electric Railway; How to Wear the Life-Preserver; Novel Use of the Telephone 315— Copying Drawings by Electric Light; The Audiphone for Deaf Ears; Improving the Audi-torium; A Double-Bladed Turnstile; An Electrical Test for Death; Narcotic, Nutmegs; Substitute for Coffee; An Ice-Breaking Machine; Magnetic Fishes; A Silver Fossil; Rail-way Alarm Signal; The Electric way Alarm Signal; The Electric Light in Mansions; Fare Tell-Tale for Omnibuses; An Earthquake Detector; Water-Resisting Cement for Glass, A New Actinometer; The Electric Light and Vegetation; The Pyrophone; An Electric Post for Paris; A Novel Swimming Machine; A New Diving Helmet; Porpoise-Oil ... 379—384. Nickel Bronze; A New Milk Cooler; A Simple Burglar Alarm; Seeing by Wire; Thread from Wood; A New Anæsthetic; An Electrical Alarm for Level Crossings; Steaming Fiery Level Crossings; Steaming Fiery Mines; Deadening the Noise of Workshops; A Simple Tele-phone Receiver; Electricity and phone Receiver; Electricity and Gardening; How to Clean a Toilet Sponge; A Water-Ballast Yacht; Ladder Tape for Vene-tian Blinds; Spence's Metal; Electric Lighting; Sugar from Corn; A New Flower Sprinkler; The Eye as a Photometer; A Safety-Ship The Eye as a Priotometer; A
Safety-Ship 443—448
A Corkless Oil-Can; A Ship-Railway across the Isthmus; A
Talking Picture-Book; A New Eye-Shade; Glass from Bones; Tent for Camping Out; Slag Cement; A Self-Acting Ventila-Cement; A Self-Acting Ventila-tor; Protecting Trees from Insects; New Way to Buoy Ships; Hardening Small Tools; A Valuable Glue; New Hose Carriage; Blasting Saltpetre; Artificial Stained Glass; A Canal through France; Making Clothes Fireproof; the Sea Mes-senger; An Electric Furnace; Clothes Fireproof; the Sea Messenger; An Electric Furnace; Waterproof Leather; A Cooling Coverlet; Edible Earth ... 507—A Pocket Life-Belt; A Simple Test-Paper; Domestic Water-Motors; Driving a Sewing-Mostica by Dog Royer A New

Machine by Dog-Power; A New Petroleum Lamp; A Novel Thermoscope; A Volcano in a

PAGE	PAGE	n.com
Lake; The Arlberg Railway;		On Cheerfulness as a Medicine 371
The Cleansing of Sponges; An	Holidays in Kent 532 Home of the Future, The 690	On Checitainess as a Medicine 371
Floatrie Wheel Chales	Trome of the Future, The 090	On Purity of Blood
Electric Wheel; Shakespeare	HORACE MCLEAN. 1, 65, 129, 193,	On Illuminating an Album 597
Electric Wheel; Shakespeare Clubs; Double Boats; The	257, 321, 385, 440, 512, 577, 641, 705	On the Beach
Essays on Home Management	Hospital Nurse's Day A	On the Beach 550
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	257, 321, 385, 449, 513, 577, 641, 703 Hospital Nurse's Day, A 725	On the Beach
A Boot and Shoe Ventilator; Pic-	1 110w to Organise a voluntary Fire-	Our Happy Valley 402
A Boot and Shoe Ventilator; Pic-	Brigade 19	Our Tenor
ture-Printing; Solar Service; A Perpetual Calendar Inkstand;	How to Manage a Small Dairy 92	· · · · · · · · · · · · · · · · · · ·
A Pernetual Calendar Inkstand	How to Gook Suching Dia	
Description of the stand,	How to Cook Sucking-Pig 242	Date to Bernard and the second
Reporting by Telephone; In-	How an Amateur Carpenter may	Pain, its Prevention and Relief 114
Reporting by Telephone; International Postage Stamps;	Make an Aviary	Painting on Satia and Silk 667
Another Domestic Motor; Meat-	Make an Aviary 343 How to Make Pastry 362	Panama and the lethmus
	110W to Make Pastry 302	Panama and the Isthmus 15
Bread; Electric Lights on	FIOW VICKERSCROFT WAS RE-	Pastel-Painting 235 Pictures on the Wall 466
Buoys; A Fruit Preserver; Solid	DEEMED. 417, 481, 544, 609, 673, 739	Pictures on the Wall
Bromine; A Water-Filtering	How to Dromoto a Shallomeans Club	Pitcairn Islanders and the Mutiny of
Touls A. L. F	How to Promote a Shakespeare Club 415	A readily of
Tank; An Iron Farmsteading;	How to Make Plain Cakes 533	the "Bounty" 212
Electricity on Board Ship; The	How Limited Companies are Formed 568	Plain Advice to Brain-Workers 236
Electricity on Board Ship; The Hudson River Tunnel; The Zoogyroscope; A Handy Shower-Bath; Digging by	Summer Companies are 1 ormed 300	
Zoommoonoon A Hand		Plain Cakes, How to Make 530
Zoogyroscope; A Handy	In a Hayfield 399	Preservation of Health in Middle
Shower-Bath; Digging by	Indian Hausahald Manager 1 000 399	Age 173
Steam; Imitations of Stained	Indian Household Management, &c. 724	Preservation of Eyesight 632
Glass; Home Management Es-		
	T	Prettiest Road in England, The 654
say—Award of Prize 635—640	June Memories 428	Professor Nordenskjöld 460 Purifying Houses, The Art of 22
A Simple Audiphone; An Electrical		Purifying Houses. The Art of 22
Fire-Damp Indicator; Neptunite;	Last Year's Snow 180	Purity of Blood, On 430
A C-16 I W Clinite,	Last year's Show 180	Turky of Elood, Off 430
A Self-Levelling Ship's Berth;	Lesson in Household Cookery, A 435	Purifying Houses, The Art of 22 Purity of Blood, On 430 Pythagoras the Samian 626
Electrical Insects; Balloon Pho-	Lion's Head, A 91	A THE TANK THE PARTY AND THE PARTY
tographs; Pneumatic Clocks in	21011 11cad, 11 91	
	AND THE REAL PROPERTY.	Railway to Candahar, The 399
Paris; Cow-tree Rubber; The	Mackerel in the Bay	Recompense
Zodiacal Light; A New Photo-	Madgia's Haro	Recompense 424
graphic Positive; A Price In-	Madgle 5 Helo 001	Russian Home, A 432
dicator for Gas Consumers;	Manitoba 334	
theator for Gas Consumers;	Mackerel in the Bay 492 Madgie's Hero 661 Manitoba 334 Martins of Pevensey, The 552 Meating of the British Association	
Poisonous Pans; Oxydised Iron;	Meeting of the British Association 554	Sapper and Miner, A 463
An Electrical Type-Setter; Ship's	Mother of Deal West Association 554	Schools, Our Foundation. 48, 147,
Message Bottle; Galene Plating;	Mother-of-Pearl Work 30	Schools, Our Foundation. 40, 147,
Message Dottle; Galene Flating,	Moving, Some Hints on 537	204, 358, 623, 669, 745
Floatable Mail-Boxes; New Uses	Music—	Second-Course Dishes 606
of Compressed Air; A New Cereal; A New Waterproofing		Servente Training Schools for
Cereal A New Waterproofing	Day-Break, 28; Courage, Brothers,	Scrvaits, Framing-Schools for 502
Breezes New Materproofing	80; Cradle Song, 178; Twas	Some Hints on Moving 537
Process; New Way to Warm	Spring-Time, 250: The Sailor's	Songs for the People 11, 107
Railway Carriages; The Czar's	80; Cradle Song, 178; 'Twas Spring-Time, 250; The Sailor's Dirge, 296; The Seed and the	Song-Rird's Departure 606
Yacht; Double Acrostic Com-	Dirge, 290, The Seed and the	Sonnat A
petition; Song Competition 698-704	Thought, 374; Forgive and Forget,	Somet, A 729
	438; Arab Love-Song, 479; The	Spring Flowers 250
Electrical Railways for New York;	Fisher's Return, 566; The Miner,	Strange Fellow-Voyager 244
Chicken Cholera; The Reso-	600 Comphadala Coming to Mari	"Strike while the Iron's Hot"
nator; A Marine Electric Light;	630; Somebody's Coming to Meet	Candida de Maria
	Me, 682; There's Light within	Studying the Weather 057
A Variable Lens; Photographing	Our Home, 722.	204, 358, 623, 669, 745 Second-Course Dishes
an Express Train; Edison's Ore		Sweet-Briar Lane 406
Separator; The Human Walk;	Music for the Blind 309	Sympathy
A Telephone for the Deaf; A	My Night Adventure in Nicolaieff 231	Sympathy 58
Mary District In the Dear, A	My Wife's Stitch in Time 410	
New Picture-Hanger; A Dif-	My Workshop at Home 141	
fusive Lantern; Making Fern	, omanop at 110me 14t	Tapestry in England 52
Pictures; Light for the Studious;		Three Answers from the Sea 140
	Nature's School	Three Answers from the Sea 140 The Three Alpine Tunnels 144, 208
Earthen Filtering Plates; A	Name - D'	The Timee Alpine Tunnels 144, 200
New Photographic Developer;	Never say Die 717	Inorns and Roses 373
Heveenoid; Japanese Air- Cushions; A New Drawing Pen;	Nature's School 50t Never say Die 717 New Settlement 334 Nicholas Clutterbuck 600 Nordenskiöld 460	Thorns and Roses 373 Throat, The, its Trials and Troubles 694
Cushions: A New Drawing Pon.	Nicholas Clutterbuck 600	"Tis Never too Late to Mend 660
December Calan Dadistics To	Nordenskiöld	Town of Coral Fishers, A 228
Recording Solar Radiation; To	Nordenskjöld 460	Town of Coral Fishers, A 226
Cultivate Water-Lilies; A Simple		Training-Schools for Servants 502
Spy-Glass abo-a64	Odour of Lilias An	
Pourlay Brothers	Odour of Lines, An 409	
Spy-Glass 760-764 Gourlay Brothers 163	Odour of Lilies, An 409 Old Tin Kettle 272	Week in the Low Countries 592
	On some Aliments Incidental to Old	What Can it Be? 203
'Her Majesty's Ministers" 406 Her Majesty's Opposition 525 Her Majesty's Representatives 621	Age	What Can it Be? 203 What to Wear. 55, 119, 183, 246,
Jon Mainstella Opposition 400	Age 46 On Getting up in the Morning 59 On the Organisation of School	What to Wear. 55, 119, 103, 240,
ter Majesty's Opposition 525	On Getting up in the Morning 59	311, 376, 440, 695, 757
der Majesty's Representatives 621	On the Organisation of School	With the Water-Fleas 151
Herring, The 748	Farms 175	Winter Source
HIDDEN COLD OF THE THE TANK	O D	311, 376, 440, 695, 757 With the Water-Fleas 154 Winter Soups 166 Word with the Complessent A
HIDDEN GOLD. 34, 94, 157, 217, 285, 349	On Paying your Income Tax 298	Word with the Convaiescent, A 293
Holiday Visit to Ightham, A 364	On Making One's Own Cheese 347	Wood-Weaving 686
Company of the Compan		The second second

