

Soap, Scientific Reliance on.....	23
Spinal Cord. Remarkable case.....	23
Tobacco, Brain Poisoned by.....	78
Bad Temper and Insanity.....	114
Diphtheria, What to do in case of.....	128
Whooping Cough, Carbolate of Soda for.....	128
Rheumatism.....	128
Blood, Spectroscopic test of, while in the human body.....	142
Rheumatism, Bee Stings the cure of.....	143
Fevers, A new Theory Concerning.....	147
The Pulse in Health and Disease.....	150
Diphtheria, Germs in Disease of.....	199
Hot Water versus Fever Germs.....	223
The Hypophosphites of Sulphur in Erysipelas.....	260
Eucalyptus for a cold in the head.....	279
New Antiseptic Salt.....	283
Poisoning by Strychnine.....	327
Antidote to Poison.....	336
Chemical Tests.....	338
Erysipelas from Sewer Gas.....	339
Lime Juice for Rheumatism.....	350

MISCELLANEOUS.

Chess Player, The Mechanical.....	22
Poison for Rats and Mice.....	23
Milking Machine.....	23
Ivory, Vegetable.....	26
The Great Hungarian Wine Cask.....	40
Room for Invention.....	41
Copying Pencils, Improved.....	78
The Population of the World.....	79
Type Made of Glas.....	90
Self-Made Men, Louis Cote.....	97
Flying Machines.....	96
Why are we Right-Handed?.....	117
Book-Binding, India Rubber for.....	117
Paper, Wood Pulp for.....	124
Feathers, How to Bleach.....	124
Bricks, Paper.....	124
Rats, A Novel Way of Destroying.....	125
Petroleum Lampblack.....	155
Torpedo Launch, The Herreshoff.....	157
Morphine Drinkings.....	158
Notes on the Canadian Tariff.....	161
English Manufactures and Foreign Capitalists.....	162
The Demand for Reciprocity.....	162
A Mountain Sinking.....	162
The Antiquity of Man.....	164
Bronzing Wood, Leather, Paper, &c.....	168
Straw, Lumber made from.....	171
Improvements in Fire-Escapes.....	286
Africans, White.....	307
Wood, Incombustible.....	307
Sailing on Rails.....	311
Plaster Casts, How to take.....	312
Gelatin in Gum, Peculiar action of.....	315
Water Gas as Fuel.....	323
A Wonderful Clock. Illustrated.....	325
The Decline in Prices.....	327
The End of the World.....	327
A Plague of Moths.....	328
The Origin of Machine-Made Pens.....	328
Discovery of a Remarkable Cave.....	332
A Year's Railway Accidents.....	335
Diverting the Oxus from its Present Course.....	335
Expensiveness of English Patents.....	341
Splitting Paper. How to do it.....	342
New Copying Process.....	348
Rules and Symbols for Correcting Printers' Proofs. Illustrated.....	344
Poison for Rats and Mice.....	346
Artesian Wells in Australia.....	346
Reaping Twenty Miles of Wheat.....	346
Single Story Cotton Mills.....	347
A New Surf Boat. Illustrated.....	341
The Universal Bath. Illustrated.....	343
A Perfect Marking Ink.....	328
Antidote to Poison Ivy.....	328
Address to apprentices by the Edi- tor.....	355
Address to our readers.....	355
Books of olden time.....	361

An extraordinary war ship.....	362
Borax for salting butter.....	366
Detection of fetidulous butter.....	366
Japanese Cement.....	366
Quicksilver alarm.....	368
The railroad up Mount Vesuvius.....	371
The microscope in the witness box.....	375
Mirror photographs.....	375
An incredible invention.....	378
A remarkable railroad.....	378
A race with thumbs on their feet.....	378
Heating and ventilating railway cars.....	379
French electric jewelry.....	380
Ornamenting glass.....	381
Comparative mortality of rich and poor.....	382
The rain tree.....	382
Care of the teeth.....	383
Spurious coloring of wine.....	383
Painless death.....	383
Pliocene man.....	383
Discovery of a colossal statue at Gaza.....	383

PAINTERS WORK, GLASS STAINING.

Putty for Repairing broken Walls.....	27
Kalsomining and Distemper.....	51
Whitewash, how to Make.....	52
Artists Canvas.....	81
Room Decoration.....	82, 207
Decoration of stairs and Ceilings.....	138
Treatment of Wall paper for stains.....	137
Varnish for replacing Turpentine..... soil paints.....	176
Varnishes, polishes, stains and va- rious receipts.....	206, 207
Water Colors, imperishable.....	203
Carriage Painting, priming, rough stuff, putty-finishings, coloring, stripping, gilding-varnishes, &c.....	207
Paint, process of preparing sul- phate of Baryta for.....	219
Turpentine Varnish.....	234
A new Paint for plastered Walls.....	282
Painting on Wood.....	275
Glazing, a new Process of.....	300
Principles of Glass staining.....	330
A voltaic Pencil.....	339
Arsenic in water colors.....	339

POTTERY FAIENCE.

How to paint in Oils.....	6
Examples of Ancient Cyprus.....	84
Faience.....	101, 304
Unglazed Pottery, how to paint.....	2 15

RECEIPTS.

Ink, Indelible for Marking.....	26
Plaster of Paris, how to make for Carving and Turning.....	3, 36
Cements, Marble.....	59
Tinted Paper.....	78
Mother of Pearl, how to imitate.....	83
To Dye Oak Black.....	83
Cement for Acquiuriums.....	83
Indian Ink, how to make.....	85
Looking Glasses, how to repair.....	85
Cement, insoluble.....	79
Stains for Wood.....	88
Cement, for Sealing Bottles.....	91
To make Green Ink.....	94
Writing Ink, indestructible.....	94
Hair, Receipt to prevent Falling.....	94
Ink, an Indelible and cancelling.....	165, 285
Grease Spots in Clothing, how to Remove.....	169
Sponges, how to Clean.....	169
Wax Pencils, how to make.....	169
Cement for Fixing Metal Letters on Brass.....	185
A Fast Cement.....	189
Red Fire.....	203
Cement for Glass.....	203

Ink, Indelible, for Zinc Labels.....	208
To Remove Fusil Oil and Clarify Iluquor.....	234
Cement Mahogany Color.....	234
Universal Cement.....	234
Ink, black.....	247
Cement for Leather.....	110
Mill for Grinding Maize.....	178
Carriage Tops, Improved.....	178
Bone and Muscle.....	184
Ivory, Imitation of Carved.....	188
Drawings, how to fix.....	188
Coal, the mysteries of.....	189
Brine as a Preservative.....	208
Chloride of Lime as an Insecticide.....	208
Brain Work and Skull Growth.....	214
Consumption of Rubber.....	210
Gigantic Trees.....	222
Fern Drying and Mounting.....	222
Is British Industry on the Wane? Will a Protective Tariff Arrest the Cause?.....	225
Warman's Upright Pianoforte Action.....	231
Lead Explosions.....	234
Speed of Elevators.....	234
To Bronze a Plaster Statue.....	234
A Novel Bird Box.....	241
Cutting Glass.....	240
Plaster Casts, how to take.....	243
Spontaneous Combustion and Re- markable Cases.....	243
The Eddystone Lighthouse.....	282
The World's Commerce.....	263
A Powerful Spectroscope.....	267
The Heliograph.....	267
The Likeness of the late Prince Imperial.....	269
The Bleeding of Labor.....	271
Patent Knife Cleaner.....	272
Origin of Kerosene.....	272
Spiders Killing Trout.....	273
Pianoforte Steel Wire Annealing.....	271
Plaster Figures, how to treat.....	275
Polishing Horn.....	275
Enamel for Porcelain Kettles.....	282
Balanced Field Gate Posts.....	342
Gutta-Percha Solvant.....	282
Glues to Resist Water.....	273
Cement for Bisulphide Prisms.....	282
Artificial Stone, a new process.....	282
New Dye.....	282
To Cut a Hole in Glass.....	282
Cement, Insoluble for Bottles.....	305
Gold and Silver, Imitation of.....	310
Dyeing, a new process.....	315
Painting Flowers upon Mirrors.....	347
Good Mucilage.....	346
Cement Floors for Cellars.....	346
Lithographic Ink.....	346

SANITARY MATTERS AND PLUMBERS' WORK.

Ventilators for Stove Pipes and Rooms.....	11
Ventilation for Bedrooms.....	12
Filtration of Drinking Water.....	12
House Drainage, Official Regulations.....	12
Essay - The Removal of Sewage, &c., by J. W. Hughes.....	70
Sewer Gas, Burning of.....	83
Illustration of Bad Plumbers' Work.....	144
Sewage Contamination of, Test for.....	158
House, to Poison a.....	172
A Warning to Plumbers'.....	172
Furnaces, Ventilation to.....	173
Sewage, Utilization of a Failure.....	173
Roofing Tongs.....	178
Bad Plumbing, Bad Tile-Drain Laying, Bad Sanitary Arrange- ments Inside of Houses is the Principal cause of Zymotic Diseases.....	193
Poisoned Air in Dwellings.....	227
Painting Walls, Hints on.....	226
Drainage, Report of Board of Health, Massachusetts, on.....	227