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NEW YORK, SATURDAY, APRIL 29, 1882.

Contents. (Illustrated articles are marked with an asterisk.)

Air, foul, in school rooms	264	Inventions, engineering	260
Air, ground. diseased	260	Inventions, mechanical	261
Anæsthetics. relative safety of	256	Inventions, miscellaneous, 262.	265
Ataxy and sewing machines	266	lerboas, or leaping mice*	265
Aurora, the, of April 16,	259	Lake hurning, a	258
Australian drought, the	258	Launch of H.M.S. Edinburgh	266
Balloter, electrical, an	264	Lawson hoiler experiment.	260
Beads, ancient, in Africa	265	Leaning mice*	265
Blackwel 's Island bridge*	255	Life-hoat nlug new*	259
Boiler experiment, Lawson,	26	Light sound and heat	250
Bricks magnetic.	964	Log electric now*	258
Bridge Blackwoll's Island*	255	May asports of the planets for	257
Cabs hansom	256	Meat and fish as food	201
Choctyws? courtship oto	260	Mochanical oprinoors Soc of	201
Coins worn restoring	256	Mechanical inventions	261
Comot a of 1889	257	Modical history of houses	266
Command nomento co-la doral	921	Monhadon industry the	200
Command, power to, early devel.	965	Migo logning*	204
Cornea, remov. met. part. metu.	200	Mill and man	200
Domin (thenlos	202	Nini, ore, new	204
Darwin, (Inaries	200	New JerseyIndustries	200
Diphthonia Anastro ant of	205	New Fork city refuse	201
Diputheria, treatment of.	200	Notes and queries	201
Drought, Australian, the	200	Ocean steaming, fast.	200
Earinquake at sea	260	Ore mill, new*	262
Electric log, new*	255	Planets. aspects of the, for May.	257
Engineering inventions	260	Plug. life-boat, new*	259
Engineers Mech , Society of	256	Power to command, early devel.	261
Fan, largest in the world	259	Refuse, New York city	261
Fast ocean steaming	266	Rodgers, steamer, loss of the	256
Fat, assimilation of	264	School rooms, foul air in	264
Fats, melting point of	256	Seed, novel, a*	258
Fires, relation of to the weather.	261	Sewing machines and ataxy	266
Fish and meat as food	264	Silk Culture Asso'tion, Women's	258
Fish. castrating	260	Sound, light, and heat	259
Fish fodder for cows	265	Statistics, war. Franco-German.	266
Fish, tile, eccentric, that*	265	Stomach, the	264
Food, meat and fish as	264	Suggestion, good, a	261
Fuel, the sun's	259	Sun's fuel, the	259
Gasometer, largest	258	Tea	266
Geoduck, the	264	Telephone, acoustic, new*	259
Glossograph, the	256	Tempering by compression	258
Gold. dry separation of from sand	256	Tile fish, eccentric, that*	265
Grain drier, new*	253	Tornadoes, how to avoid them.	260
Ground air, diseased	260	T eatment of diphtheria	265
Guano, bat, in Texas	265	Tunnel Hudson River.	265
Guns, hammerless, climax	261	Vermilion, manufacturing	265
Heat, light, and sound	259	Vessels steam officers' licenses	258
Houses, medical history of	266	Var statistics Franco-Gorman	266
Ladustrios Now Torsov	566	Water converting into stoom	a c00

them. 265 265

TABLE OF CONTENTS OF THE SCIENTIFIC AMERICAN SUPPLEMENT

No. 880,

Industries, New Jersey...... Industry, menhaden, the.....

For the Week ending April 29, 1882. Price 10 cents. For sale by all newsdealers,

	PA	GE
1.	ENGINEERING AND MECHANICS Ballooning Across the Eng-	
	lish Channel2 figuresView of Balloon of Colonel Brine and Mr.	
	Simmons as it left the land.—Rescue of balloon by Calais packet.	
	as seen through a telescope	5255
	The Railway Tunnel Between France and England -4 figures -	
	Section of shaft —Entrance to shaft near Shakespeare's Cliff.—	
	Operation of the Beaumont excavator Reception in the shart	5555
	The Tourbillon Wind Motor 1 forme	5027
	Ine rouronion wing Motor — I figure	5257
	Now tive Boam Address Plane and clavetions	5957
	Keyless Watches Recless Mann watch manufacturer Say	9494
	ONT	5259
	The Tourbillon Wind Motor — 1 figure. Improved Rigging Machine.—1 figure New Stive Room.—4 figures.—Plans and elevations Keyless Watches.—By GROSSMANN, watch manufacturer, Sax- onv.	5257 5257 5257 5257 5259

II. TECHNOLOGY AND CHEMISTRY.-Practical Hints on the Manufacture of Gelatine Emulsions and Plates for Photographic Purposes -W. K. BURTON......

CHARLES DARWIN.

Charles Robert Darwin, whose influence upon the current of modern thought has been surpassed by no other scientific investigator, died at his residence near Orpington, England, Wednesday, April 19.

Mr. Darwin was born at Shrewsbury, England, February 12, 1809, inheriting rare qualities for scientific observation and philosophic thought. His father was a worthy though not eminent member of the Royal Society, and his grandfather was the celebrated Erasmus Darwin, author of "The Botanic Garden." His maternal grandfather was the founder of the famous pottery works at Etruria, Josiah Wedgwood, One copy, six months postage included 160 also a member of the Royal Society. His early education was received at the public school in Shrewsbury, whence he passed to the University of Edinburgh, where he spent two years. He then went to Christ's College, Cambridge, where he was graduated in 1831. His bent for natural research was not diverted by his schooling; and soon after his graduation he read a paper on marine zoology, giving such promise of scientific ability that he was offered the position of naturalist on the now historic Beagle, soon to start on a cruise of scientific exploration round the world. Five years were spent on this cruise, during which those suggestive observations were made which led to the development of a new theory of the origin of species.

Returning from this voyage in 1836 Darwin made ready for publication his "Journal of Researches," and in 1840-42 he edited the "Zoology of the Voyage of the Beagle." Shortly after he published his classic works on "The Structure and Distribution of Coral Reefs." These works were rapidly followed by "Geological Observations on Volcanic Islands," in 1844, and "Geological Observations in South America," in 1846. Meantime his contributions to scientific publications and the transactions of scientific societies were numerous and valuable, as they were throughout his long and active life. The two-volume "Monograph of the Family Cirripedia," was published in 1851 and 1853, and soon after his two volumes on the fossil species of the same family. In 1853 the Royal Society awarded him the royal medal, and in 1859 he received the Wollaston medal of the Geological. His epoch marking "Origin of Species by Natural Selection," appeared the same year. The controversies provoked by this work probably did more to attract popular thought to questions of natural science, and to change the popular as well as scentific mode of regarding such topics, than any other influlence of the century.

The later works of Mr. Darwin bear evidence of his untiring industry in collecting facts and his marvelous faculty for the rational interpretation of such facts. The work on the "Fertilization of Orchids by the Agency of Insects" appeared in 1862; "Habits and Movements of Climbing Plants" in 1865; "The Variation of Plants and Animals under Domestication" in 1867; "The Descent of Man, and Selection in Relation to Sex" in 1871; "The Expression of Emotions in Man and Animal" in 1875; "Insectivorous Plants" in 1876; "The Effects of Cross and Self Fertilization in the Vegetable Kingdom" in 1877; "The Different Forms of Flowers and Plants of the Same Species" in 1880; and "The Formation of Vegetable Mould through the Action of Worms" in 1881.

This enormous volume of work has been accomplished by untiring industry, in spite of frequent illnesses which to most men would have been accounted sufficient cause for idleness. Personally Mr. Darwin was greatly loved by his social and scientific acquaintances, and his home life was the happiest. He leaves five sons and two daughters, all of superior ability and high characters.

His most eminent characteristic, however, has been an unswerving loyalty to truth as obtained by exact observation and unprejudiced judgment, regardless of ridicule or misrepresentation. It is this, more than the revolution he has so largely helped to bring about in modern thought, or the admirable quality of the scientific work done by him, that makes his life one of the precious legacies of the nineteenth century.

THE LOSS OF THE ARCTIC SEARCH STEAMER RODGERS.

The Arctic search steamer Rodgers, which was so suc-

 Manufacture of Getatine Emulsions and Plates for Photographic
 5261

 Purposes -W. K. BURTON
 5261

 Beer Analysis. By J. N. HURTE
 5261

 Some Industrial Uses of the Calcium Compounds. BY THOMAS
 5261

 Bords - Decture IV. -Phosphorescent Compounds. -Bleaching
 5261

 Power - Phosphates - Hardness of water, etc.
 5261

 Continued from SUPPLEMENT No. 325
 5261

 On the Manufacture of Chloride of Suphur. By J. CARTER
 5264

 Bert A.
 5261

 Bert A.
 5261

 Bert A.
 5261

assist the shipwrecked crew. Three months' provisions were saved from the ship. Tupkan is near Cape Serdze Kamen. -----

Society of Mechanical Engineers.

The annual convention of the American Society of Mechanical Engineers began in Philadelphia, April 19, Prof. R. H. Thurston, of the Stevens Institute, in the chair. The roll of membership now contains three hundred and twenty-five names. The first paper was read by W. R. Eckert, mining engineer, Comstock Mines, on "The Chronograph for Engineering Purposes, with the Hipp Escapement." The next was by Prof. Thurston on "The General Efficiency of the Steam Engine."

The afternoon was devoted to eulogies of the late Alexander H. Holley. An oration was delivered by James C. Bayles, after which speeches were made by Professor Thurston. Coleman Sellers, of Philadelphia; Eckley B. Coxe, of Luzerne County, Pa.; J. C. Hoadley, of Boston; R. W. Hunt, of Troy; William Metcalf, of Pittsburg; Charles T. Porter, of Philadelphia; J. T. Holloway, of Cleveland; L. B. Moore and W. E. Partridge, of New York city.

The Glossograph.

A speech recorder called a glossograph has been invented by A. Gentilli, of Vienna. It is described as a combination of delicate levers and blades, which, being placed upon the tongue and lips and under the nostrils of a speaker, are vibrated by the movements of the former and the breath flowing from the latter. This vibration is transmitted to pencils. These transcribe the several signs produced by the action of the tongue and lips and the breath from the nostrils upon a strip of paper moved by a mechanical arrangement, and thus a special system of writing, which may be termed glossography, is produced. This is based upon the principle of syllable construction and combination of consonants. •

Hansom Cabs.

The first extensive introduction and use of Hansom cabs in this country is to take place in Philadelphia, Pa., in a short time, by the Pennsylvania Railroad Company. The cabs are to be constructed in the best manner after the English pattern, and a contract for thirty has been given to the enterprising Connecticut firm of carriage builders, Messrs. Hincks & Johnson. The Pennsylvania Railroad Company intend by means of these cabs to transport passengers from their new depot to various parts of the city at a very low price.

The experiment will be watched with interest, and, if successful, will probably lead to the extensive introduction of these cabs in other cities.

----Dry Separation of Gold from Sand.

A novel apparatus for separating gold from sand without the use of water was recently completed and tested in this city. It is intended for use in the placer regions of the West, Mexico, and Central America, where gold-bearing sand is found at a distance from water sufficient for hydraulic mining. The machine is about five feet in diameter, and is arranged to throw the sand by centrifugal force against a

wall" of mercury, maintained in position by centrifugal action. In this way, it is claimed, every particle of gold is brought in contact with the mercury and amalgamated, while the sand is blown away by means of an air blast. The machine is said to clean a ton of sand in twenty minutes, and to be so thorough in its operation as to make it possible to work over with profit the tailings of mines worked by other systems. The power required to operate the machine is not given.

Melting Point of Fats.

The method adopted by the "Society for the Mineral Oil Industry," in Halle a. S. is to be preferred for the safest and most accurate results above all other methods. Instead of determining the melting point they use the solidifying point as a basis for their results. The following method is recommended as giving accurate results for the direct determination of the melting point: A cylinder having thin walls is heated in a beaker containing water or oil. In the cylinder there is a thermometer whose bulb is only partly dipped into the fat. The temperature is determined at the moment when the fat begins to become transparent.-J. Merz, in Chemiker Zeitung.

	ber 15, and was burned January 1, 1882. Intelligence of	Relative salety of Anæsthetics.
Gas for Lighthouse Signals.—Gas Siren	the loss was first received April 18, through Mr. Jackson,	Dr. Ormsby, of the Meath Hospital, Dublin, has compiled
The Estimation of Sulphureted Hydrogen and Carbonic Acid in	Herald correspondent, with the party in search of the lost	the following table of the absolute and the relative mortality
Treatment of Ammoniacal Water — Hennebutte's process 526	crew of the Jeannette, who met, on the 6th, a courier from	caused by the use of the leading anæsthetics. The table
Rosa Gallica in Pharmacy	Mr. W. H. Gilder, of the Rodgers, who had reached Ver-	is based mainly on statistics gathered by Dr. Andrews of
III ELECTRICITY, ETCOil Tank Fires from Lightning and Sug-	khoyansk, about four hundred miles north of Yakutsk. Mr.	Chicago, and Dr. Richardson, of London:
gestions for their Prevention. From HENRY MORTON, President	Gilder had been sent on by Lieutenant Berry to announce	Agent employed. Deaths. Admins. Deaths. Admins.
The San Jose Electric Light Tower. 1 figure	the loss of his vessel and to appeal for help for the officers	Ether 4 in 92.815, or 1 in 23,204
IV. ARCHITECTUREEnglethwaite, near Carlisle, England. Per-	and crew, thirty-six in number, who were awaiting supplies	Chloroform
spective and plan	at Tiapka, in Eastern Siberia, near Cape Serdze, some two	Bichloride of mythy lene 2 in 10.000. or 1 in 5.000
V. PHYSICSSolidification by Pressure. 4 foures 596	thousand miles from Yakutsk.	
V. PHYSICSSolidification by Pressure, 4figures	thousand miles from Yakutsk. From the meager details so far given, it appears that en-	Restoring Worn Coins.
V. PHYSICSSolidification by Pressure, 4figures	thousand miles from Yakutsk. From the meager details so far given, it appears that en- deavors to save the ship were made in vain. She lay within	Restoring Worn Coins. Recently while Dr. A. H. Best, of Savannah, Ga., was
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