SCIENTIFIC AND SANITAEY.
The St. Lawrence River is the only absolutely floodless river in the world. Its greatest variation, caused by drought or rain, never exceeds a foot.-Chicago News.
Profrssor Nothinage, the Austrian court physician, traces the grip back to the ninth century, and says it recurs with varying intensity for three or four years, and then dies out for twenty or more year
He knows no remedy. New York Press.
Tue planets Jupiter and Venus are evening stars throughout January. During the month they approach each other, and on the 5th of February they will be in conjunction. At this time they will be very near each other, the distance being only a minute. During January the other planets, Mercury, Mars, Saturn and Uranus, are to be seen in the avening, the last two in the constellation Virgo, and Mars in Libra during the first part of the mouth and in Scorpion durlatter.
Tue island of Madagascar has two distinct climates, two classes of natives and two classes of fauna and floca. The island is about the size of France. Along the coast it is tropical and malarious, and the
natives are darker and larger than in the natives are darker and larger than in the
interior. The interior is a high table land and interior. The interior is a hightable land and
mountainous. There the climate is cooler and the natives smaller and lighter in colour than on the coast. But in the interior they are more intelligent and they rule the island.-Pittsbur!/ Dispatch.

The complaint is much less heard now than it was formerly, but still it is sometimes beard that the eloctric light is injurious to the eye. Most people have learned that it is just as easy to save the eyes from the electric light by the exercise of a little common sense, as it is to injure them by the neglect of it. For perfect illumination there is no necessity for the actual source of light to be visible. It may be diffused by means either of frosted lamps, dioptric shades or silk shades. The light will be much more pleasing, and the loss in light will be found to be much less than is usually supposed. A properly illuminated room is one in which the light is evenly distributed, and no irritation is caused by the source of it being too apparent. Elec trical engineers ary beginning to recognize
that the diffusion of light is an art in itself. that the diffusion of lig
-Pitsbury Dispatch.

## "August Flower"

How does he feel? He feels blue, a deep, dark, unf ding, dyed-in-the-wool, eternal blue, and he makes everybody feel the same way -August Flower the Remedy.
How does he feel?-He feels a hearicho, generally dull and constan, but sometimes excruciating-
August Flower the Remedy.
How does he feel?-He feels a violent hiccoughing or jumping of the stomach after a meal, raising bitter-tasting matter or what he has eaten or drunk-August Flower the Remedy.
How does he feel?-He feels the gradual decay of vital power; he feels miserable, melancholy, hopeless, and longs for death and peace-August Flower the Rempeace.
How does he feel?-He feels so full after eating a meal that he can hardly walk-August Flower the hardyedy. G. G. G Woodbury, New Jersey, U. S. A.


The following is a statement showing nationality of the immigrants to New York during 1890 . Germany heads the catalogue
with 77,138 passengers. America itself is with 77,138 passengers. America itself is
second, with 60,000 native citizens returning from their European trip on pleasure, health, or business. The third in point of numbers are the Italians, who reached a total of 59,154 ; the fourth are the subjects of the Hapsburg Monarchy-Austria-Hun-gary-who numbered 57,122; the fifth are the English, 45,087; the sixth are the Irish, 38,568; the seventh, the Russians, 32,256 ; the eighth, the Swedes, 25,095 ; the ninth, the Poles, 17,409 ; the tenth, the Scotch, 10,391 ; the eleventh, the Norwegians, 9,975 ; the twelfth, the Danes, 8,735 ; the thirteenth, the Switzers, 7,144; the fourteenth, the French, 7,082. The Dutch, who once were more at home there than any other Europeans, sent only 4,325 last year, and their old competitors, the Spaniards, only 835 , about a hundred less than the Portuguese. Australia sent 45 , and China 26.
A Scotchmar has invented an ingenious and useful addition to the clock for the purpose of warning its owner that the time of an engagement has arrived. At the top of the clock is a disk or drum in which are forty-eight slots representing the hours and quarters of the day, the whole arrangement being driven by the clock so as to make a complete revolution in twelve hours. Tablets of ivory, one and a-half inches long by threequarters of an inch wide, fit into the slots of the disk. To use the device, the engagement is written on a tablet which is placed in the slot representing the hour and fraction at which the engagement is to be fultilled. The moment the time arrives the tablet drops automatically into a box in front of the clock, while an alarm bell rings sixteen times to call attention to the tablet. As there are forty-eight slots, it is possible to make the clock warn for an engagement every fifteen minutes. The device will, it is said, become popular with business men who have subordinates with short memories, while to ensure the proper administration of medicine, at stated intervals, the apparatus will find a useful place.-Philadelphia Record.
Ir is known that ozone can be abundantly produced by the electric silent discharge, and many years ago Siemens devised an "ozone-tube" for the purpose, consisting of two thin glass tubes, one within the other ; the inner lined, and the outer coated, with metal, to which alternating currents of high tension are brought, acting on the gas to be ozonized within. From recent experiments in Siemens and Halske's laboratory, says Nature, it appears that a good result may be had with only one dielectric, and for this not only glass, but mica, celluloid, porcelain, or the like, may be used. Thus the ozonetube may be arranged with a metallic tube within, and the outer tube a metal-coated dielectric; or the inner metal tube may have a dielectric coat, while a metal tube is the enclosing body. As metals that are little or not at all attacked by ozone, platinum, tin, tinned metals, and aluminium are recommended. Through the inner tube flows cold water, and through the space between the tubes air, dried and freed from carbonic acid. Several such tubes may be combined in a system, and worked with alternate currents (for single tubes the continuous current with commutator is best). An apparatus of this kind is now at work in the laboratory, yielding 2.4 mg . of ozone per second. Experiments are being made in supplying compressed ozone for technical use; and this has been accomplished with a pressure of nine atmospheres. One use of ozone, on which Herr Frölich lays special stress (in the recent lecture from which these data are taken), is the disinfection and sterilization of water. And doubtless with an abundant supply of the substance, the use of it will be greatly extended.Science.
Drs. Emmbrich and Mastraum have published an interesting article in a German Hygienic journal on the cause of immunity from infectious diseases and their treatment, especially of swine erysipelas, and a new method of protective vaccination for it. Emberich, according to the Lancet, published in the year 1886 his doctrine that the cause of immunity from infectious diseases is a modification of the chemical process going
on in the cells, so that the new chemical compounds formed act as microbe killers without doing any harm to the cells them selves. In consequence of the results of a series of experiments, Emmerich concluded that this antibacterial poison acts destruc tively on all the microbes within a few hours after their introduction into the organism The publication of this doctrine having met with a good deal of opposition, he repeated his experiments, and again arrived at the same result, showing that the explanation of immunity from infectious diseases pro posed in 1886 was justified. Granted the correctness of this, it follows that extracts from the tissue of any animal enjoying im. munity are remedies against the correspond ing infectious disease. Further experi ments are now reported by Drs. Einmerich and Mastraum, which show that an extract from the various tissues and the blood of rabbits, which have been made proof against swine erysipelas, is an excellent remedy for the disease, and that a hypodermic injection of the extract can serve as a rational protective inoculation. A rabbit was inoculated by having injected into the posterior auricular vein the fifth of a cubic centinetre of a fresh broth culture of swine erysipelas, diluted with fifty times its volume of distilled water. In the course of the following week or two a series of hypodermic injections of the same liquid was administered. For the purpose of preparing a liquid extract suitable for therapeutic or prophylactic purposes, the organs of the rabbit were cut up and submitted to a presrabbit were cut up and submitted to a pres-
sure of from 300 to 400 atmospheres, and sure of from 300 to 400 atmospheres, and
the expressed juice filtered into sterilized bottles. A large number of white mice as well as rabbits were now inoculated with the swine erysipelas, and at the same time, or very shortly afterwards, an injection of the liquid extract was aduinistered to some of them. These remained alive, while all the others--that is to say, those which had not received an injection of the liquid extract of the organs of the infected rabbitsuccumbed. Other experiments were carried out by which it was shown that this same liquid is capable of conferring immunity from the disease. Further experiments were made which showed that the bucilli were destroyed in six hours, and that in eight hours all were dead, or at least incap. able of multiplication, but that the liquid extract produced extremely little effect upon the same bacilli outside the organism, so that the presence of living cells is evidently necessary for the destructive effect of the liquid extract to manifest itself. Another interesting result obtained was that bacilli taken fresh from the body were very much more active than their cultures in broth.Science.
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## Dyspepsia

 dyspepsia than Mr. F. A. Mciman, a well-known Grocer of Stauntom, Va. He says: "A Before linis In in excellent health, weighing over 200 pound. In that year :un aihment developed int, acute dys pepsia, and soom I was reduced to 162 pounds, suffering burning sensations in the stomach, palpitation of the heart,

Nausea and Indigestion I could not sleep, lost all heart in my work, hal fits of melanchnlia and for duys at a time I would have welcomed death. I became monde, sullen and imrit.
able, and for eight years' life was a lurden. I tried able, and for eisht years life was a lurden. I tried many phywians and many remedien. One day a
workman employed by me suggested that I take Hool's sarsaparilla, is it haud cured his wife of dynpepsia. I did so, and before taking the whole of a hottle I began to

Feel Like a New Man.
The terrible pins to which I hiul been sulpected, ceased, entire system beran to tome up. With returning
streneth came activity of nuind and body. Before the hifth bottle wis tak and condion. $[$ an torday well and I ascribe it to taking Howel's sarsaparilla.,
"Myself that I used Huseds sarsabarilla. Six I was also hroken down by overwork, wo th to l comili

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