Notice to Our Readers.

In order to obtain the opinion of the readers of the SCIENTIFIC AMERICAN as to what invention introduced within the last fifty years has conferred the greatest benefit upon mankind, we publish the accompanying card, which please cut out and return to the editor. Those who preserve the paper for binding and do not desire to deface their files, or who read this Much, it is affirmed, may be effected by resolution and notice at a library, will please answer by postal card. firmness of mind. It is related that the Abbe Jaria, It is desired to get as full a vote as possible. The result of the vote will be published in the Special inducing sleep, was in the habit of placing his patient 50th Anniversary Number of the SCIENTIFIC AMERI-in an armchair, and after telling him to shut his eyes CAN on July 25.

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Correspondence.

Barisal Guns and Mist Pouffers. To the Editor of the SCIENTIFIC AMERICAN:

In response to the request of SCIENTIFIC AMERICAN. page 403, June 27, 1896, in the article entitled "Barisal Guns and Mist Pouffers," I would say that such phenomena are very common on this coast. My attention was first called to it some twenty or more years ago while acting as engineer of a towboat, it being our custom to lie three or four miles off the mouth of the river (the Piscatagua River), or about half way between Portsmouth light and the Isles of Shoals, and await the appearance of inward bound vessels. At these times I have frequently heard the sounds mentioned occurring at irregular intervals, and so far as my memory serves me, during the prevalence of a light southerly wind or a calm, and in warm, summer weather. They had a dull muffled sound, which appeared much like the report of a cannon at a very long distance.

A former shipmate informs me that he has heard these sounds all along the coast from Cape Ann to the eastern part of Maine, and frequently at the Isles of Shoals, especially a short time before sunset in hot weather: he thinks sometimes as often as three or four ; reports per minute, but he has never observed it at night or in winter.

The depth of water between the mouth of this river and the Isles of Shoals, a distance of about eight miles, varies, I think, from nine to about LEVI W. LORD. eighteen fathoms.

Portsmouth, N. H., June 28, 1896.

Sleeplessness.

It was once a custom in the more remote parts of Scotland to employ bards to rehearse to great men the verses of distinguished poets as a means of promoting sleep, for, as it has been observed, "anything that catches the attention, such as soft music, or any monotonous sound, as the murmuring of a rivulet, will entice sleep." But, good as many of the experiments may be for driving away wakefulness, experience would prove that what engenders sleep in one person acts in the very opposite direction on another. Thus, ness may be mentioned Pope, who, when he was at on some occasions Boerhaave, in order to procure sleep for his patient, directed water to be placed in such a position that it was continually dropping on a brass pan; a contrivance which, in many cases, had the reverse effect of keeping the person awake. And in adopting such artificial methods, Sir Henry Holland has observed, "These often fail from the cause." When they succeed, it depends on the exhaustion being more

finally overcome by drowsiness-which reminds us of the missionary who, troubled with sleeplessness, repeated the Lord's Prayer till Satan sent him to sleep to get rid of it; and he adds that he never found the receipt to fail. Some have obtained the same result by a recourse to figures, either repeating the multiplication table or working out some simple problem. who acquired some reputation through his power of and collect his thoughts, he said, in a strong voice,

ness of mind great power may be obtained over the thoughts.

Some of the artifices for curing sleeplessness have been equally curious and ingenious. The famous engineer Brindley often saw the experiment tried of a man extending himself across the large stone of a corn mill, and gradually falling asleep by the stone whirling round before it gained its full velocity; and Asclepiades, among his many inventions for improving the art of physic, recommended the plan of pensile or suspended beds, by which the person was rocked asleep. Dr. Franklin was a firm believer in the air bath as a means of procuring refreshing sleep; and in Adair's "Essay on Diet and Regimen" minute directions are given for the use of hot water as an effectual remedy; whereas Strueve, in his "Asthenology," speaks of electricity as promoting sleep, and tells of persons who have been cured of insomnia through making use of an electric bath. Among the natives of India it has long been customary to employ a servaut to gently tickle the soles of the feet till sleep takes place; and Lord Bacon indirectly refers to the custom, and writes, "It is received and confirmed by daily experience that the soles of the feet have great affinity with the head, and soporiferous medicines applied unto them provoke sleep." Chinese medicine has many curious ways of producing sleep, which would scarcely find acceptance in this country. But rubbing the soles of the feet is recommended, because it is said that "the middle of the sole of the foot is as the outlet and opening of a great many sources of the spirits dispersed all over the body." The Hindoos maintain that to sleep with the head to the north will cause one's days to be shortened, whereas in our own and other countries this position has oftentimes been adopted by persons suffering from sleeplessness. Thus, some years ago, it was announced to the Scottish Curative Mesmeric Association that persons wishing to secure sleep should lie with their heads to the north and not on any account toward the west. It is also stated by an eminent physician in Scotland that when he failed by everyother prescription to bring sleep to invalid children he recommended their little beds to be turned due north and south, the head of the child being placed toward the north--a process which had never failed to produce sleep. Some, again, have insisted that a certain amount of cold is a cure for sleeplessness, a notion which was advocated in olden times. Mr. Alfred Snell found the application of cold produced sleep when other remedies failed, and many a time, he tells us, he has obtained for his patient rest by applying a little cold water to the top of the brain when every other means had been of no avail. In short, persons suffering from want of sleep have been compelled to try all kinds of expedients; for, as Haydon once remarked, after a sleepless night, "You get up with a black veil over your fancy, through which you see all things."

Among some of the well known victims of sleepless work on his Iliad, was beside himself with sleeplessness; and both Smollett and Cowper were afflicted with the same malady, as also John Leech. Carlyle, at times, was more or less troubled with insomnia, and on such occasions generally sought relief in his pipe. But, like Leech, Carlyle was acutely sensible to every kind of sound, and the slightest noise would decompose him for the night. In the same way Thackeray

twenty-four. And we may mention that indefatigable worker Michael Angelo, who, after passing the greater part of the day in his studio, would often rise at night to resume his labors, fixing a lamp on the top of his pasteboard cap "to supply the light which guided his marvelous chisel." But, in only too many instances, by such means, habitual sleeplessness has been the penalty, as happened to Claude Bordelieu. Unable to get rest, he resorted to opium; and it is related of Goldoni that, after writing as many as sixteen plays in a single year, "he paid the penalty during the rest of his life." Although men like Jeremy Taylor and Richard Baxter were content with three or four hours' "Dormez," which was invariably successful. Hufe-sleep, few persons can dispense with the requisite land, too, maintained that by perseverance and firm-) amount, being more or less inclined to agree with old Dr. Fowler, of Salisbury, who used to say that to live a long life one must "lie abed in the morning until you are done enough."-London Standard.

From What Countries do the Illiterates Come? The nations that will be affected by probable legislation are those from which the undesirable immigration comes. The following table, compiled by Congressman Bartholdt, will give a clear idea of the effect of a bill now before Congress if it should become a law:

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Nationalities.	Percentage of Illiterates.
Portugal	
Italy	
Galicia and Bukowina	
Poland	
Hungary	
Russia (proper)	
Other Austria	3270
Greece	
Roumania	
Belgium	
Turkey in Europe	
Wales	
Bohemia and Moravia	
Spain	
Ireland	
Finland	
France (including Corsica)	3 [.] 50
England	
Netherlands	
Scotland	
Germany	
Norway	
Sweden	
Switzerland	
Denmark	

Many sections of this country need immigration, and it would be wise to encourage it if the people are desirable, that is, of a kind that can be assimilated. If the immigrants could be induced to locate and stay where they are wanted and to keep away from the sections where they are not wanted, the problem would solve itself. Unfortunately, this is not possible. If they are admitted to the country, they will go where they want to go and not where the people want them. This being the fact, repression seems the only relief for the sections that are oversupplied. If repression must be had, this bill seems to offer the best plan vet proposed for eliminating the undesirable classes.

Fiftieth Anniversary of the Telegraph in Belgium.

S. F. B. Morse, one of the best known electrical men in Chicago, often receives letters and verbal inquiries relating to his famous grandfather of the same name, who first put into practice the art of electric telegraphy. A late letter from Belgium shows that at the approaching celebration of the first half century of telegraphic service in that country the name and fame of Morse will be appropriately honored. This interesting communication is from J. Banneux, the engineerin-chief and director of the state telegraphs of Belgium, and is dated at Brussels, May 20, 1896. It is as follows, says the Western Electrician :

The administration of telegraphs of Belgium will celebrate on September 9 next the fiftieth anniversary of the establishment of telegraphic service in the country. On that occasion I would be pleased to exhibit to those familiar with his apparatus an authentic portrait of the illustrious American inventor

complete, or the mind being rapidly carried from one object to another, a desultory state of this kind being and to him, when going to sleep, there was no greater apparently one of the conditions more favorable to friction than the monotonous noises of street life. the effect desired. Sometimes, however, every means thought of for inducing sleep fail-

"And in the calmest and the stillest night, With all appliances and means to boot, Denies it to a king."

Southey's method of insuring a good night's rest was a simple one, for, writing to his friend James White, he said, "Follow my practice of making your latest employment in the day something unconnected with its other pursuits, and you will be able to lay your thinking too much," which must be regarded as equally head upon the pillow like a child," which is much to the same purport as Tissot's recommendation "to soli- hand, it has been oftentimes acknowledged a strange cit sleep by a seasonable dismissal of business and care." In the same way Kent, finding it impossible to procure sleep at his accustomed hour, diverted his employing means to check it. Boerhaave, for instance, attention to some indifferent subject, such as the history | it is said, after one of his intense studies did not close and writings of Cicero; whereby he not only got the his eyes for six weeks, and Descrozilles, according to

was keenly alive to any jangling, inharmonious sounds, Morse

Byron was much troubled with sleeplessness, and one night, it is said, "suffered horribly," only allaying his distress by incessant draughts of soda water. Occasionally Charles Dickens could not sleep, and at such times he was in the habit of getting up and taking a long walk-a stringent remedy which he used to say brought him his required sleep. Writing of Chillingworth, Lord Clarendon once remarked that "his only unhappiness proceeded from his sleeping too little and true of only too many brain workers. On the other paradox that whereas many are resorting to every contrivance to coax and promote sleep, others are better of the thoughts which kept him awake, but was his own confession, only allowed himself two hours in paratively unimportant duties.

Again, one of the noted painters of the day, charged by the government with the production of an historical composition to ornament the walls of the postal and telegraph stations in Brussels, has pictured Prof. Morse among his principal figures, and to this end he seeks to obtain as faithful a likeness as possible. We will therefore be very grateful to you if you can find it within your power to send us two good photographs of your illustrious grandfather, especially those which represent him in the last years of his life.

BUSINESS says: An owner of a process or invention for manufacturing an article, which was kept from all but confidential employes, may restrain former employes from disclosing, or using in a rival establishment, their knowledge of same; and it is immaterial that there was no written contract between them, or that at the commencement of their employment the employes were minors, and performed com-