

A TALK ON NOISES.
English Scientists Give Some Interesting Explanations.

(New York Times.)
"Sounds of the Town" was the subject of the third of the series of Christmas lectures by Professor W. H. Bragg at the Royal Institution on "The World of Sound." He delighted his juvenile audience on Saturday afternoon by his experiments in explanation of familiar noises in the house—the roar of the wind in the chimney, the drip of water in the bath, the echoes of an empty room, the singing of the kettle, and the creakings that are heard when the house is still at night.

Why do so many people sing in the bathroom? asked the professor, and the girls and boys broke out into laughter, remembering the impulse that seizes them to break out into song when they are having a bath. The professor explained that the note is struck by the running water. He also pointed out that while the voice sounds resonant in the bathroom, it is not half so fine or inspiring when the song is continued in the dressing-room. The reason is that the furniture of the dressing-room tends to deaden the reverberations of the rise and fall of the pitch of the voice, caused by the dropping of a little India Myrtle ball into a bowl of water. When the ball was given an irregular surface by dirt or grease it "burst" the water, and thereby caused a loud "plap," but when the ball was rubbed quite clean and dry it fell noiselessly, because the water lapped round its even surface. The explanation given of the singing of the kettle was that the bubbles of steam formed at the bottom, nearest to the flame, tried to get to the top, and coming into contact with water of a lower temperature fell back again with sounds like tiny hammer strokes on something solid. The roaring in the chimney is due to the vibrations of the air caused by the heat of the fire. In illustration of this the professor produced strange roaring noises from two drain pipes, one eight and one twenty



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For Last 10 Years

Headaches affect all ages and both sexes alike, but in all cases the treatment should be directed to remove the cause, for with the cause removed the headaches vanish for all time.
What is necessary for a permanent cure is something that will go right to the seat of the trouble. For this purpose it is impossible to find a better remedy for headaches of all description than Burdock Blood Bitters, acting as it does on every organ of the body to strengthen, purify and regulate the whole system.
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singing given by science is that the intense heat of the Egyptian sun caused two of the stones, which were loose, to grate against each other, thus causing a noise, in the course of the repairs, the stones were properly set.
One of the most famous effects of sound in London, Professor Bragg said, was the whispering gallery at St. Paul's. Words spoken at one end of the gallery go right round, and are heard at the other end. A model of the gallery was shown, and a gas jet at one end was made to jump when a slight noise was made at the other. Wavelets of sound, it was explained, are reflected along the wall of the gallery.
Professor Bragg also told an amusing personal experience he had while in the service of the admiralty during the war. As an aid in the anti-submarine campaign it was important to fix exactly the sound of a submarine under water. Sir Richard Paget of the board of invention and research, being an expert musician, was lowered into the sea. He was brought up humming the exact note made by a passing submarine.

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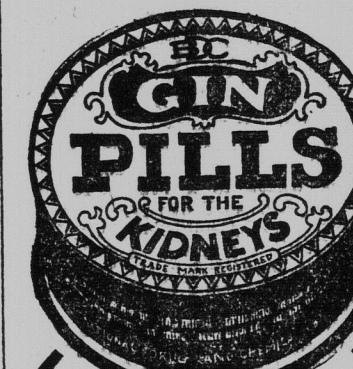
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Think of one retail firm selling one-third of a million bottles of any one medicine right over the counter direct to consumers in only two years' time! It seems incredible, but such is the record made by the Owl Drug Company, through their retail stores on the Pacific Coast.
Think of one retail firm in a single city of 200,000 population, selling approximately eighty-eight thousand bottles, an average of over two bottles for every family in only four years' time! Such is the record of the Jacobs' Pharmacy, of Atlantic City.
Think of one retail firm giving a single order for an entire car load, twenty-three thousand and forty bottles and agreeing to pay cash for the goods promptly on arrival. Such an order has been received from the Lewis R. Liggett Company, of Winnipeg, Canada.
Another big Canadian retail firm, G. Tumbly, Limited, Toronto, Canada, recently gave their order for one hundred gross, amounting to \$10,000.00.
Orders from retailers for from fifty to seventy-five gross are not uncommon, and practically all of the leading retail firms buy Tanlac in from ten to twenty-five gross lots to supply their normal demands.
When the magnificent new laboratories at Dayton, Ohio, and Walkerville, Canada, have been running at top speed for months, it has been a physical impossibility to supply the phenomenal and ever increasing demand for this celebrated medicine.
During the first ten weeks of last year One Million Three Hundred and twenty-seven thousand bottles of Tanlac were sold, breaking all World's records for the sale of proprietary medicines up to that time. This record now pales into insignificance, however, as orders received during January alone of this year reached the astonishing total of One Million Two Hundred and Twenty thousand bottles, showing an increase of approximately one hundred per cent, over the corresponding period of 1919.

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The Wonderful Efficiency of Vinol is proven by these letters:
"My little daughter, 13 years old, overworked and was run-down, tired all the time, nervous, had headaches, couldn't eat and had to stay out of school. Vinol has built her up. She has a good appetite, no more headaches and has returned to school."
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For all run-down, nervous, anemic conditions, weak women, overworked men, feeble old people and delicate children, there is no remedy like Vinol.
Your money will be returned if Vinol fails—Leading Druggists.

feet long by means of a gas burner placed underneath. These little cracks and clicks heard at night are, the professor said, simply explained by changes in temperature. Articles of furniture get warm during the day and expand, and when the cool of the night comes they contract, and in doing so emit groans as if invisible beings were hating them.
Professor Bragg explained why it was that a motor car sounded higher in pitch coming towards one than when away. It was possible, he said, to estimate the speed of the car by the difference in pitch between the two sounds, and he could imagine a very intelligent and musical policeman trying to trap a car that way.
Professor Bragg told the story of two great obelisks with carved colossal erect ed by a Pharaoh in Egypt. One of the



are the quick, sure and safe remedy for Kidney and Bladder troubles. They relieve the awful pain, reduce congestion, eliminate stones and gravel, and restore the organs to usual active health.
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FOR THE KIDNEYS
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SHARP'S BALSAM
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Healthy Mothers
Healthy Babies

Every true mother realizes the fact that her baby's health depends upon her own, that the very vitality of her child is influenced by her own physical condition. How important it is, therefore, to guard against any derangement of the female organs, which induce general weakness, nervousness, constant fatigue and utter inability to properly care for her child. Please remember that Lydia E. Pinkham's Vegetable Compound has brought health and strength to thousands of such mothers.
"I had a very bad time of it when I was looking forward to the coming of my little one that I am recommending it to other expectant mothers. Before taking it, some days I suffered with neuralgia so badly that I thought I could not live, but after taking three bottles of Lydia E. Pinkham's Vegetable Compound I was able to go around and do all my housework. My baby when 7 months old weighed 19 pounds and I feel better than I have for a long time. I could hardly say I feel so much good."—Mrs. FRANK MORTIMER, Mitchell, Ind.
Good health during and after maternity is a most important factor to both mother and child, and many letters have been received by the Lydia E. Pinkham Medicine Co., Lynn, Mass., telling of health restored during this trying period by the use of Lydia E. Pinkham's Vegetable Compound.

Lydia E. Pinkham's
Vegetable Compound



It has done me a world of good

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