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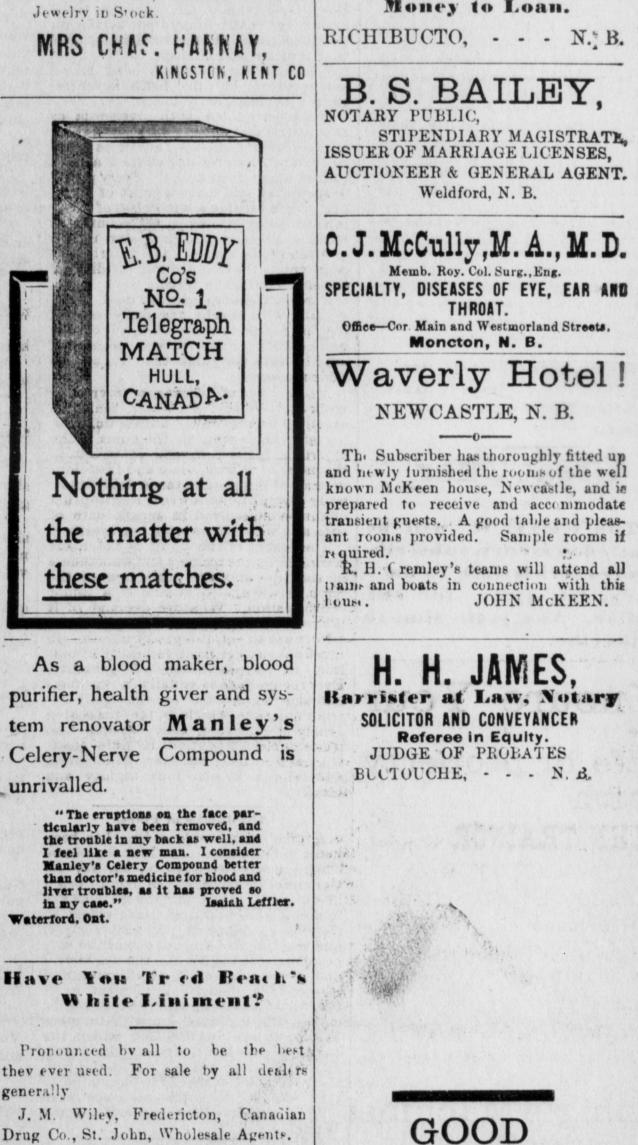
> FOWLER & BANKINT St. John N.B.

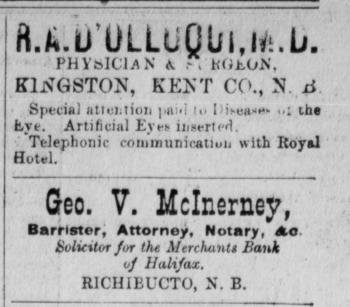


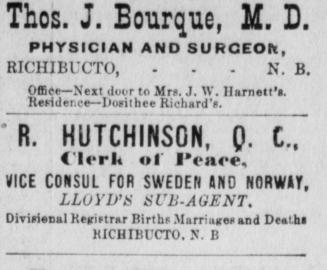
lie by a notice given free of charge in the Scientific American Larcest circulation of any scientific paper in the

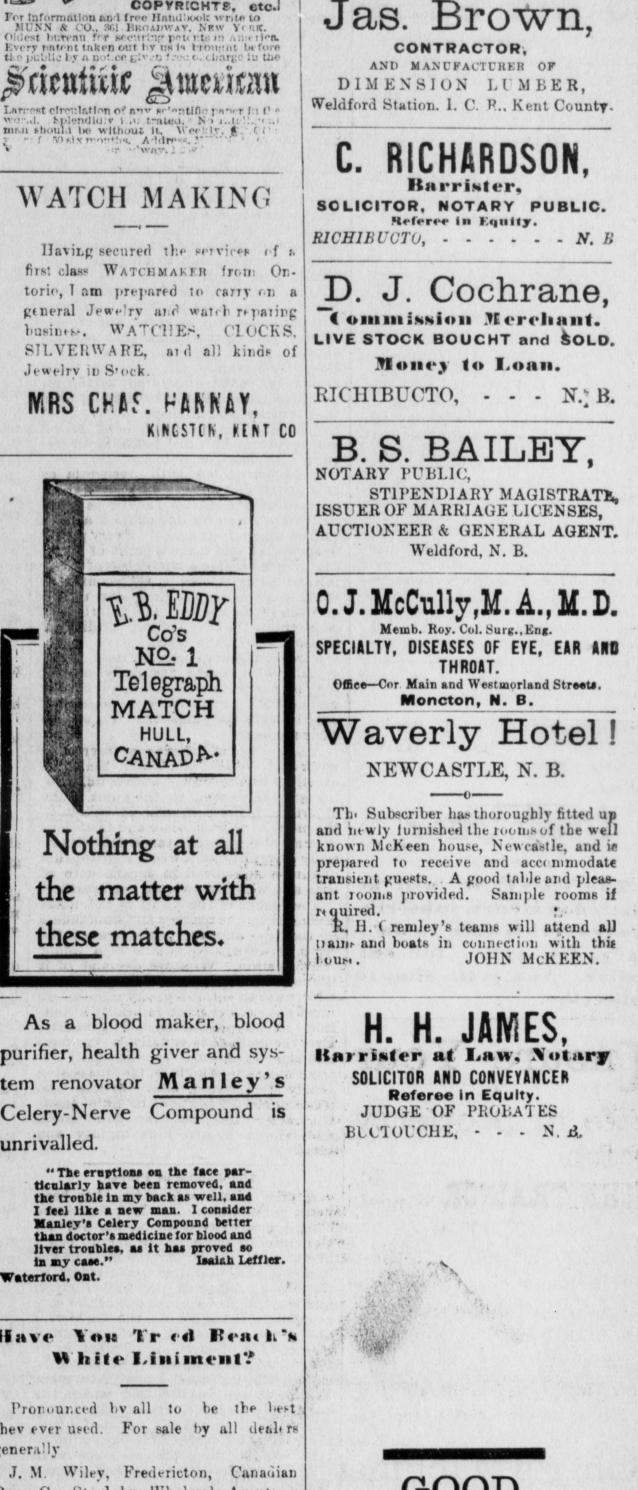
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contact with selenic acid it will turn pink. None of the other poisons simi-larily generated exhibits the same phe-nomenon. Accordingly, pink would ap-pear to be the characteristic color of wrong doing. How appropriate, then, that the wicked person should blush for his evil acts. It is a question whether he does so very often, however. whether he does so very often, however. Prof. Gates has identified his poisons and beneficial chemical products by ex-citing definite emotions in individuals and analyzing their perspiration, etc. Persons suffering from guilt will not be likely to send samples of their own to him for examination. Just here it may be as well to say that the ignorant will make a mistake if they imagine that this new science invades the domain of the visionary. Its conclusions are not the visionary. Its conclusions are not based on theory, but on facts. To sum up, it is found that for each bad emotion there is a corresponding

bad emotion there is a corresponding chemical change in the tissues of the body which is life depressing and poi-sonous. Contrariwise, every good emo-tion makes a life promoting change. Thus it follows that it pays to be good and do good for one's own sake. Prof. Gates has made some very re-markable experiments with dogs. He took three puppies of the same litter. No. 1 he allowed the ordinary roving life of a young dog; No. 2 he kept in a dark room, covering its eyes with blind-ers, so that not a ray of light could en-ter them from birth; No. 3 he allowed all privileges good for puppies, and in addition devoted several hours a day to educating its sense of sight. The ani-mal thus trained learned to discriminate colors unknown to ordinary dogs. colors unknown to ordinary dogs. He could distinguish fifteen different shades of any color, except purple and red. As to red and purple, it would appear that the canine race is hopelessly color blind.

After a while the three dogs were killed and examined. The parts of the killed and examined. The parts of the brain which have to do with the func-tion of sight were wholly undeveloped in the pup that had been blinded. In the educated pup they were twenty-five times better developed than in the ordi-nary dog, as represented by No. 1, being in fact nearly equal to the same portions of a man's brain. Those portions of the brain substance were more dense, were supplied by more blood vessels, contain-ed more cells, and had more highly de-veloped cells than the corresponding structures in the normal dog. The important inference is, that what is accomplished for puppies and cats can be done with human beings. Just as the brain of the young dog is developed by

be done with human beings. Just as the brain of the young dog is developed by such training as has been described, so the child's mind may be built up. This plan, adapted to teaching, produces re-sults very different from those obtained by the hit-or miss processes of common-

school instruction. Brain-building is, par excellence, the science of the future. How is man to get more mind? Upon the answer to that question the prospects of the race depend. Who can doubt that the human | try to put your finger on him. Now, brain of 10.000 years hence will produce that's a common, ordinary third class ideas far beyond the capacity of the best piece of thought mechanism of today? The psycho-physicist states it is an axiom that the mind can only be educated through the senses. Let a child be blind from birth, and the part of the brain that records the impressions of vision will remain rudimentary. Suppose the same infant to have been born deaf, and the areas of hearing will be inkewise undeveloped. If the baby were born without any senses whatever, and acquired none, it would have absolutely | Abroad. no mind. People think of the mind as if it were something purely spiritual. In truth, it is a piece of physical mech-anism. Beginning with a child, it may be put together. bit by bit Every thought which enters the mind is registered in the brain by a change in the structure of its cells. The change is a physical change, more or less per-manent. Bad thoughts build up structures of cells which engender evil ideas, opposite effect. The psycho-physicist can take a dis-couraged, ambitionless and melancholy person and within six weeks transform him. He will be put through a course of mental lessons. To begin with, he will be taught to rehearse for one hour he can summon up. He will deliberate-

electors each. One of them is now represented by a liberal unionist, six by radicals and fourteen by conservatives. All parties, therefore, profit by this un-equal distribution of members, and if the conservatives have now, on the whole, the advantage their tenure of it will probably not be long. The new registration bill seems designed to swing the pendulum far to the other side and to give to the radicals undue representation. Thus five Irish consti-tuencies, with an aggregate poll of only 14,000, will send to Westmins.er one representative each, while Romford, with more than 19,000, will send only one; in the other, one to 19,000. Broken Friendships.

It is about the time of year now when the college boys come home bubbling over with enthusiasm about their Greek letter secret societies. Fresh from school, they actually believe that the friendships made in their school fraternities are going to follow them through life and serve as a powerful adjunct to success. Poor chaps! The years undeceive them bitterly. One of the hard things in this human life of ours is that if a man grows at all he is hourd to grow away from friend. is bound to grow away from friend-ships. Men do not keep pace with one another; some bound swifty forward and upward; others are more deliberate in their progress; too many advance not a step beyond the point where youth and college days quitted them. A reader of books has a somewhat

similar experience. As he becomes what Bacon calls a full man, he discovers that he no longer has a taste for the reading which was once his delight, and he wonders what particular enjoyment he could have found in the perusal of volumes which now almost repel him. We venture to say that in nine cases out of ten it is purely a sentimental re-gard for them as old chums that induce the reader to hold on to (we will say) half the books that cumber the shelves of his library.

So growing away from friendships. whether they be the friendships of hu-manity or the friendships of books, would seem to be one of the evidences, as well as one of the penalties, of intellectual growth.-Eugene Field.

Mark Twain's Flea.

"When you come to gage a thing's speed by its size. where's your bird, and your man, and your railroad, alongside of a flea? The fastest man can't run more than about ten miles in an hournot much over 10,000 times his own length. But all the books say any com-mon, ordinary third-class flea can jump 150 times his own length; yes, and he generally can make five jumps a second, too. 750 times his own length in one little sec-Here is one of the many testimonials. ond: for he don't fool away any time stopping and starting-he does them both at the same time; you'll see, if you TROUT BROOK, KENT Co., N. B. THE DUNN MEDICINE CO., flea's gait; but if you take an Eyetalian first class. that's been the pet of the nobility all his life, and hasn't ever known what want, or sickness, or exposure was, and he can jump more than 300 times his own length. . . . It's ninety miles a minute; it's considerable more than 5,000 miles an hour. Where's your man now? Yes, and your bird, and your railroad, and your balloon? Laws! they don't amount to shucks 'longside of a flea. A flea is just a comet biled down years. small."-Mark Twain's Tom Sawyer

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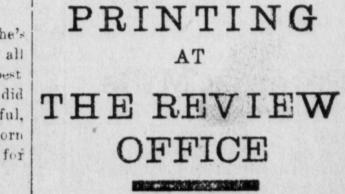
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