# Scientific American.

## An Obscure Phenomenon in Psychology,

A few months ago a writer in this journal gave us a collection of facts illustrating the existence of what he called a "mental atmosphere." Such facts are of much more psychological importance than they are usually deemed. Indeed, most scientific writers fear to speak of them, lest censure for too great credulity be their reward.

This was long the case with mesmerism, until it was investigated by Dr. Carpenter, and then it proved a valuable means of furthering the study of mental phenomena, and led to the discovery, or at least the correct understanding, of the automatic cerebral action. This interesting function of the mind is closely connected with more recondite powers by which the brain, or rather the action of the brain, its rhythmical workings, become in some yet unknown manner in accord with workings of other brains, so as to lead to the rise of the same idea in two minds. If, with Fechner (still the best authority on all psycho-physical questions), we regard thought action as the manifestation of a series of vibrations subject to mathematical laws akin to those which govern the senses of sight and hearing, then the explanation which suggests itself to these instances of persons en rapport, or clairvoyant, is that the thought vibrations are detected by the consciousness as isochronous with those in a another mind, somewhat as a musical ear will detect concord between the pitch of two sounds, when ordinary persons cannot.

But we care less just now to substantiate this theory than to illustrate the facts for which we are seeking explanations. Two remarkable and well attested instances have been laid before the profession in the last few months, in the pages of the Chicago Medical Journal, in the numbers for June and September.

The first is related by Dr. George W. Kittell, of Shabbona, Ill. A young lady cut her head severely with a pane of glass, imbedding a number of small fragments in the wound. It was not attended to properly at first, and in a few months "the pieces of glass actually removed, from the crown of her head to the soles of her feet, were numbered by thousands." This looks very much like one of those aggravated cases of hysterical dementia which, in their love of self-inflicted suffering, have always been the puzzle of the wise and the wonder of the vulgar. In this wretched condition she survived from favor of the people; but it seems to us, at least so far as our 1865 to December 1872, when death from exhaustion super vened.

The part of Dr. Kittell's description we wish to call attention to is the following:

" One curious phase in her history should be noticed. refer to clairvoyance.

" In this case it was not produced by mesmerism, but by chloroform, and she became more and more susceptible to its influence. In the latter stages of the case, this state came on occasionally from over excitement.

Before the accident which introduced the case, she was given chloroform for the purpose of having a tooth extracted. is furly entitled. The doctor who administered it had not always kept that moral rectitude, in some particulars, which becometh a physician. Shortly after the inhalation commenced, she began to upbraid him for his conduct. The doctor was frightened, and accused a man, the only one beside himself who knew the circumstance, of telling. The man protested he was innocent, for he really was. When Miss Low returned to consciousness she knew nothing of what she had said, or of the occurrence she had related.

" My first knowledge of this effect of chloroform on her came in this way: After removing some glass one day, and while she was still under the influence of the anæsthetic, I was called out for a private interview. The weather being pleasant, we stepped into the orchard and sat down under a tree. When I returned she remarked ' you thought yourself very 'cute when you went into the orchard to talk; but I heard it all.' I then asked her to tell what she heard, and she related our conversation correctly. She had not left the bed in my absence, and could not see the orchard, as it was on the other side of the house. In fact, she was apparently unconscious the whole time; and when she had fully recovered from the influence of the chloroform, she knew nothing of whathad been done or said. I had known her to say strange things while anæsthetized, but till now had not understood it.

" Sometimes, after having taken chloroform, she would rise in her sleep and go miles, in her night clothes, to find articles that had been lost. She never had any knowledge of these nocturnal expeditions in her waking state, except the proof afforded by the presence of missing articles, and the

I its modesty, we are obliged to take issue with Inter Ocean, affair of the future. At all events, we congratulate our contemporary upon its prosperity, and cordially wish it the brilliant career to which, from its excellence as a journal, it

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## DECISIONS OF THE COURTS.

### United States Circuit Court---District of Massachusetts.

RUBBER WRINGER PATENT .- JAMES B. FORSYTH V8. CHARLES M. CLAPP et al SHEPLEY, J.

Without at this time stating the conclusions to which the court arrived in relation to several questions presented in this case, it will be sufficient for the disposition of the cause to state the decision of the court upon the ques-tion of infringement. For a proper consideration of this question, it is necessary to consider the state of the art at the time of the alleged inven-tion of the supertu

Without at this time statury the conclusions to which the court arriven in relation to several questionspresented in this case, it will be sufficient for the disposition of the cause to state the decision of the court upon the ques-tion of inframenon. For a proper consideration of kills question, it is necessary to consider the state of the art at the time of the short with wire and afterward with twine. An affort was made to secure a more lasting union to the shaft of the top winding the shaft with wire and afterward with twine. An affort was made to secure a more lasting union to the shaft of the top unding the shaft with wire and afterward with twine. An affort was made to secure a more lasting union to the shaft of the top upon heated shaft. Next followed a mode of making the shaft fitself of two or more parallelrods. The rubber rolls fits made with a number of holes corresponding to the number of the energient obth. Various other devices appear to have been resorted to for the purpose of fastening more firmly the the to the shaft. The purpose of the coll with the metallic shaft. The difficultry which Forsyth though the saw, and which he claimed had not been obvinded by any of the other devices, was not of moment the span-net been obvinded by any of the other devices, was not of others the shaft field of the strain on the rolls when in nue to a destruction of the obag of the roll itself. His theo y was that, while the connection, of the shaft field of all practical purposes in the use of a wringing machine, the strain, a portion of the body of the roll model process of disruption or rend ing the body of the roll. If the top appear the system of the rubber compos-strain, a portion of the body of the roll was to substrate for the holy of the scale to a strain the strain of the rolls as the strain the formation with the shaft by a rocess of disruption or rend is assumer of the body of the roll thread way from the portion strain, a portion of the body of the roll would break away from the portion is device t eresting occurrences of this kind must be omitted because f their length. If any doubt is entertained as to the truth f these statements, any further proof desired will be gladly urnished by the author." An example, not dissimilar in kind, but furnished by a

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by him. Bill dismissed.

[William Whiting and James E. Maynadier, for complainant. Benjamin R. Curtis and George L. Roberts, for defendants.]

## Recent American and Loreign Patents.

#### Improved Cigarette Machine.

Joseph De S. Ruiseco, Paris, France.-In using this machine, the tobacco s placed in a receiverabove a distributing apparatus, which causes a gaged quantity of tobacco required for a cigarette to drop down to a compressor eneath, by the compressing action of which the tobacco, being rolled up is inserted afterward into a paper tube ready to receive it, by means of a peculiar device. The paper sheets are laid into a rectangular box of the like section to the surface of the cigarette paper. A piston is constantly acting on the heap of sheets, and compels them to lean against a plate which is called "a hand," forming one end of the box, and intended to catch them one by one, and carry them to the rolling rod, whereby the same are formed into tubes. The paper sheet is rolled up within a cylindrica tube or mold, split through one of its generating lines, which split one edge of said sheet enters, and is caught by the rolling rod, that is set  $rotsin_{j}$  within the said mold. The lower end of the rolled up sheet is, togethe with the mold, carried up to the compressor containing a roll of tobacco which is then, by another rod, driven into the paper tube. The mold move anew and presents the rolled sheet containing its tobacco, and having its lower end folded up, to the action of the upper end folders, when the cigar ette is completed, and the mold returned to its starting point, or under th rolling rod. On its entering the mold, the rod drives out the made cigar ette, and gets hold of a new sheet, which undergoes the very same opera tions as the foregoing one. From what has been said, the making of digarette consists of three different operations, effected simultaneousl; with three different molds, so as to obtain a threefold speedy manufactur ing action. The first operation consists in taking a sheet, rolling it, an folding the lower end thereof. The second operation consists in intro ducing the tobacco into the paper tube thus formed, and the third and las operation consists in folding the upper end.

## Improved Spring for Chairs.

William T. Doremus, New York city .-- This invention has for its object to furnish an improved spring for use upon articles of furniture, whic shall be readily adjusted to give it any desired tension. The inventio consists in an improved spring, formed by the combination with each othe of the two rubber blocks, between which is placed the middle part of a shaped bar. Another U-shaped bar is passed between the arms of the ba above mentioned, and thus passes around both the rubber blocks. A vok passes along the upper side of the upper block, and the various parts a the spring are connected and held in place by two bolts which pass throug the voke through notches in the ends of the rubber blocks and through th middle part of the U bar. By this construction, by tightening and loose ingthe nuts of the bolts, the tension of the spring may be regulated as r quired. Suitable construction adapts the spring for use in connecting chair seat to its pedestal.

condition of the bed in the morning.

"Her clairvoyant state was another existence to her. When in this state she would tell anything that had transpired at other times, while in the same condition. I have given her chloroform in enable her to find lost articles, which she could always do. Some little thefts, and sometimes bigger ones, were made known in the same way.

"When very sick she was often delirious, sometimes for hours, which led many people to suppose she was insane, and some said she was possessed of the devil. It was from this fact that the horse thieves escaped punishment; many would take oath in court against her sanity. She was the principal witness; and popular prejudice, backed by some physicians for no laudable purpose, carried the day.

'To relate all that she said and did, while clairvoyant, would make a long and interesting chapter. The most interesting occurrences of this kind must be omitted because of their length. If any doubt is entertained as to the truth of these statements, any further proof desired will be gladly furnished by the author."

#### Improved Harrow.

Milas K. Young, Glen Haven, Wis .- This invention consists of a coup of pulverizing bars in front, four, more or less, bars with knives or tee behind them, and a wide pulverizing bar behind the toothed bars, all co nected together a few inches apart by chains, to be drawn sidewise over tl surface. The toothed bars are arranged obliquely to each other to give side draft to the teeth or cutters, to some extent. The knives incline fro the front backward so as to rise upon the clods, etc., and cut them by preing downward; but they can be made to point forward and downward be used like a colter by reversing the bars.

## Improved Means for Propelling Vessels.

John O'Neil, New York city.-This invention relates to improvements the class of propellers formed of oscillating paddles; and it consists, chily, in the arrangement of the upper pivot for the slotted stems of the pa dles to shift forward or backward of the vertical plane of the crank, so to hold the paddles in such manner that they dip vertically into the way and thussave the loss of power due to heating it obliquely.