## THE LONDON ADVERTISER, FRIDAY, JANUARY 10.

## Denton & Deeks 1

## MERCHANT TAILORS and IMPORTERS OF FINE WOOLENS

Are showing a large assortment of the latest novelties for Dress Suits in Worsteds, Cheviots, Sicunas; also French and West of England Broadcloths at very low prices. Unexcelled for fit and finish.

ne, good father Bradford, and I have given him his answer," replied Molly, 384 Richmond Street, London. \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

precating hand.

fill

Dr.



- So, subduing his own emotions, Mas-ter Bradford told how the Belle Isle had encountered in the Bahama waters the craft of a famous buccaneer of that time and locality, named Black Beard, who, from his lair in one of the inlets of the island since called that man Francis Le Baron. And New Providence, sallied forth, now to though God has in his righteousness attack some vessel whose freight he removed him from my sight, from this had reason to suppose valuable, and now to make raids upon the mainland, band; and I can no more take another his ravages extending as far north as than can Dame Sampson, because her the Carolinas. Either from information or by a shrewd guess, none could say which, Black Beard had decided that the Belle Isle was worth his cap-

on this occasion, and had lain in wait for her, taken her by surprise, slaughtered most of the crew, and having thoroughly stripped her, not only of the treasures of the poor marquis, but of every other valuable, had ecured her crew and passengers, living and dead, below hatches, set fire the brig and sailed away, leaving that I am but a poor, silly

her to consume and sink. One of the sailors, sick in his berth below at the time of the attack, had crawled out of one of the portholes, secured a floating spar, and in the confusion and smoke of the onslaught, trived to float out of the immediate vicinity of the pirate before anyone had leisure to discover or pursue him; and after a night and day in the water was picked up by some natives from one of the other islands, who would have sold him to Black Beard as a slave, had not he fortunately ected his escape and worked his way to Massachusetts Bay, where he hoped to find come French vessel returning home. Telling his story to the governor, who 200 years ago occupied more the position of father and guardian of the colony than the governors

of today do or could, he was sent on to Plymouth Plantation, there to give by word of mouth the heavy news so impertant, not only to Dr. Le Baron's family, but to those of two other townsmen who had taken passage on the Belle Isle.

son Such in brief was the news that the kind Bradford, then ruling Plymouth, had come to give as best he might to verely. Baron's widow; and, having given to kneel and prav beside her that God would give strength to endure the loving chastisement his own hand

nt prayer and well-spoken consola-

me autumnal day, about a year after her husband's loss, and premising his errand with some kindly commonplaces, to which she replied in her gentle, absent fashion, came to the pith of his errand in this direct style: "I have come today, my dear child, to give you some counsel which I do to give you some counsel which I do

earnestly desire you to follow. I would see you married again, as St. Paul ad-It Can be Shown Whether a Hair is From vises the younger widows ever to do; and I have a good and suitable husa Male or a Female, Whether a Drop of band to propose. One, too, who has Blood Comes From a Human or an Anisome sort of a claim upon you, in that

The second s

you once were troth-plight to him, and broke the bond for no other reason mal Body. than a maid's idle fancy. I mean Reuben Hetherford, Mary." Reuben Hetherford has spoken with "The Diary of a Judicial Chemist," now under the press in Leipzig, Germany, explains many secrets of the professional expert figuring in the courts of justice the world over. The author, Dr. P. Jeserich, uletly, but with a little color rising has been a well-known character in the to her cheek, a little light to her eye. The patriarch smiled and lifted a decriminal courts of Germany for many years; sometimes he was on the side of the "I know it, Mary: I heard it all from Hetherford himself, and it seemed to me you had shown him less than your usual gentleness. I hardly knew our dove-like Mistress Le Baron in the scormful dame whose words he re-State, at other times he pleaded for the wrongly accused. Happilv there has been secured from Berlin advance sheets of the book and a number of illustrations,

showing how by the use of photomicrography, which is the production of enlarged images of the whole or portions of an "It is like him to try to set you

CORPUSCLES IN HUMAN BLOOD.

To illustrate the possibilities of photo-

micrography it is but necessary to mention

that a man magnified the same amount as

some subjects of the microscope-fortified

camera would appear as high as Mount

Washington. A drop of blood, a single

hair, a particle of skin that may be found

under the finger nails of a person suspect-

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the second states

CORPUSCLES IN GOAT S BLOOD.

Microscopes have been in use for many

us consisting of a stand with a mechani-

cal stage, a well-selected set of objectives

and a 4x5 camera, building it up as fol-

lows: The camera is pivoted opposite the

microscope, the first having a pasteboard

funnel with black velvet lining attached

to its front, so as to allow some 2 feet

'draw." The eye piece of the microscope

is removed and the open tube joined to the

little end of the funnel by a light-tight

sleeve of velvet. A lamp is set with the

edge of the flame toward the microscope,

the latter being attached to some contriv-

ance so as to be readily operated while the

observer stands before the ground glass

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not contradict him. Believe me a shrew and you will, father; but let me, in all reverence to you, say again, as I said to him, I am the wife of one man, and world even, he is none the less my hushusband has gone voyaging around the world."

"But, mistress, you will not make yourself more faithful or more righteous than the fathers of our colony here," began the governor, rather severely: but Mary, putting her hands together, raised them in such depreca-tion of his anger that he paused irresolutely, and she took advantage of his doubt

in your hands to

put in her own plea object by means of photography, evidence "Nay, father, be not displeased; say of crime has been discovered in apparently

unimportant or entirely useless specimens and let me go my way, looking only of corpus delicti. The public has heard of to your honorable guardianship for protection and counsel; for in these discoveries, but has never before truth Reuben Hetherford could never been taken into the confidence of the your place in those respects. I scientific expert. In the following extracts shall be no charge to anyone; the most important features of the forthwhen the money my dear husband coming volume will be noted. Under the requirements of modern my farm near Falmouth, and I think science the uses of the camera, fortified by already of opening a little dame-school here in my own sitting-room. There the microscope, to depict graphically and

many who would trust their with slight loss of time and trouble the hidden secrets of nature. have multiplied. dren to me, and I may dismiss Desire, and there are other economies-Photomicrography has become a powerful in truth, father, I need no man to care for my affairs except yourself." defense against crime in the hands of justice. "But the lad. Mary! Lazarus surely needs a father." A jury composed of twelve law-abiding citizens, good and true, is not easily cajol-

has one, sir; and one of his ed by uncorroborated expert testimony. daily lessons is to learn to be what Man rebels at the thought of accepting the that father would have him. I may word of another on a matter that is beyond be all unfit to train him, but Reuben his own comprehension: his sense of just-Hetherford shall never be master over ice opposes the imputation of condemning Le Baron's son." Mary, and bitterness and a person on a basis of what he considers prejudice and perversity. Those are scientific speculation. In former years the good gifts you would give your many criminals escaped punishment beare they?" asked Bradford se- cause the public prosecutor was unable to

establish their guilt, save by scientific de-"Better those than cruelty and duction; the jury, in hundreds of welltreachery and falsehood, the goodly blossoms of Hetherford's nature," reknown cases, refused to believe the State's expert, and that body of highly estimable plied Molly, in so undaunted a tone that the governor rose in much dis- gentlemen gradually fell into more or less pleasure, and would have left the deserved disrepute. Then the new appliolly listened to heavy news, elo- room but for the fair, soft matron cation of photography, with images magsuddenly replacing the self-asserting nifled through the microscope, came to matron who opposed him but now, their aid. The jury received tangible

graphic objective with reversed foci, just as is done in enlarging a small negative, the ens being nearer to the object than to the round glass screen; these processes will do for experimental research, but never for the expert, who may decide the fate of a human being. The medico-judicial expert employs special apparatus of a very expensive sort, the machinery, lenses and

microscopes alone costing \$800, and even with these it will sometimes be only after long and patient trial that a satisfactory negative is produced. The objects are photographed against a plain background that offers the greatest contrast in the matter of color. A very convenient way in

many instances, especially when the obect has to be kept in fluid, is to take it with the camera placed directly above it. This applies especially to brain photography, of which more later on.

Exact measurements of the dimensions of minute objects exposed by the camera with the aid of the microscope are taken by instruments called micrometers, indicating the actual dimensions of the objects to be measured. The method most commonly adopted consists in the insertion of a ruled glass scale into the focus of an ordinary eye-piece, this scale being fixed in a brass inner frame that has a slight mo-

tion in the direction of its length within an outer frame. The micrometer measures objects down to the one-millionth part of an inch, if properly applied, and in order that it may be done the instrument is put through a test before use on criminal business.

In what follows our readers will find engravings of photomicrographical reproductions of minute quantities of blood drawn from the body of a human being, and of a goat respectively, which figured in a recent murder case. It appears that a single drop of blood shed by murderous hands was removed from one of the garments the suspected person had worn when he committed the deed. The spot was on the shirt sleeve, and the prisoner insisted that it got there in the butcher shop, when he examined a freshly

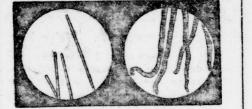
slaughtered pig. This seemed plausible enough, and as the evidence against the murderer was purely circumstantial the prosecutor would have had a hard time to convince the jury that the suspect's story was fictitious save for the aid of microphotography. At the trial he first made clear to the jury the character and the properties of human blood. Asking the foreman to place a drop of his own blood under a microscope he showed the gentlemen the crowd of minute bodies, so-called corpuscles, it contained. Then he demonstrated that the average diameter of the red corpuscies, which are in the majority, is about 1-3500 part of an inch, their thick-

their aid. The jury received tangible ness about one quarter of that measure ment. The form he demonstrated, was that of circular disks, slightly concave on both ends.

possesses a root, a shaft and a tip. The root is embedded in the bair follicle, while the shaft and tip form the free projecting part. The substance of the human hair is composed of a horny material, with many cells, containing the pigment granules. In the thicker hair (in man's beard hair, for instance) these cells contain air.

The beard hair of the murderer, magnified by the process described, and illustrated in the engraving, exhibits the hair cuticle perfectly, with its scale-like cells and its air chambers; the latter appear dark, the cell scales quite light, for the man's beard was of a grayish color.

No expert is needed to distinguish between the hair roots represented in the engravings. Those of the female are lank and thin; those from a man's head are



TIPS AND ROOTS OF WOMAN'S HAIR.

club-shaped. The tips of the woman's hair show that they have not been cut for a great many years, while those of the man's head clearly exhibit the marks of the scissors, where the tips have been out from the shaft.

All this and more testimony that, in spite of its technical character, appealed d rectly to the understanding of everybody concerned was brought out at the trial mentioned, and it was finally found that the second prisoner stood guard at the house where the murder was committed, and that, after the deed, the murderer, in a fit of emotion, threw himself on his friend's neck and cried, then and there leaving the tell-tale hair, from his head and heard upon the man's shoulders. One of the most interesting photomicrographical experiments is the use of photography in taking the various cultures of the brain, magnified through the microscope. The brain is sometimes a very difficult object to picture; it is of a soft and yielding texture, and covered with a thin, highly reflecting membrane. In most cases brain photography shows white patches of reflected light. The best way is

to face the light with the camera and photograph the shadowed side, taking care, of course, that the cut section or special pertion that one wishes to depict, is on the shadowed side, and excluding all side light. After putting the brain in position, time must be allowed for it to assume a state of complete rest. as it is not a very solid body, and a portion may move during the exposure, the rest remaining still. In preserving the brain, various methods are in use, depending on what is desired to be done with it in the future. If for microscopical study, Muller's fluid, consisting mainly of bichromate of potash, is often used; this stains the tissue a brigh vellow, in which stage it is difficult to





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" Castoria is the best remedy for children of which I am acquainted. I hope the day is not far distant when mothers will consider the real interest of their children, and use Castoria instead of the various quack nostrums which are destroying their loved ones, by forcing oplum, morphine, soothing syrup and other hurtful agents down their throats, thereby sending them to premature graves."

Castoria. "Castoria is so well adapted to cinfidren that

I recommend it as superior to any prescription known to me." H. A. ARCHER. M. D., 111 So. Oxford St., Brooklyn, N. Y.

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UNITED HOSPITAL AND DISPENSART, Boston, Mags ALLEN C. SMITH, Pres.,

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tion with the same set white face and fixed, unseeing eyes for all. When the somewhat puzzled magistrate rose to go, she rose too, and, holding out her hand, said gently:

"I thank you very much, Master Bradford, and will you kindly excuse me to any of the neighbors who may speak of coming to see me before tomorrow? I had rather be alone." "Will you not see the elder?" No, if it please you, sir. I had

rather be alow?" "Then you shall, poor child; and none shall take offense if Desire deyou at the door.' And we, too, will leave her alone.

CHAPTER XL. No doubt our Puritan and Pilgrim ancestors possessed affections and ses- dame-school, and dismissed Desire, but timents like ourselves but these graces of life were, in the stern first century of their experience on the sterile shores of New England, made sterile shores of New England, made begun with his son, and which were so subservient to the iron principles already far beyond the most advanced upon which their commonwealth was founded, the tastes of the individual were so constantly sacrificed to the well-being of the community, that erally making the mother's heart flut small evidence of even ordinary feeling apnears upon the surface of their records. Notably is this the case in the be sent to Boston, or perhaps to matter of second marriages; for from new college at Cambridge, to finish the first landing of the Pilgrims, or,

rather, from the first winter when so woman's grasp. many marriages were dissolved by death, it seemed to be received as a grave political, if not moral, duty, that grief for the dead should be postrief for the dead should be post-to care for the living; and the to argue about their ailments. What they

for the Lord and his people. Rose Standish had not lain many

months in her grave when her hus-band applied for the hand of Priscilla assid Mullins; Dorothy Bradford had hardly settled herself to her wave-rocked slumber before the governor sent over miles of wire. seas for fair Allce Southworth, his

first love, to come and be his second And all through the records of those early days we find the marriages ollowing the burials so rapidly that he funeral meats might have been at least lukewarm for the marriage

feast. view of this state of things, Mary Le Baron was not scandalized, al-

Ladies. Buy Princess Paper Shell Almonds. No Nut Crackers Required.



and who, clasping his hand in her own proofs of the correctness of the mysterious long, smooth fingers, raised it to her phases of evidence submitted; it was allips, saying: lowed to follow the expert's flight into un-Nay then, nay father, but I will not have you leave me so. Did not you promise to be a father to the fatherknown regions by pictorial illustrations; in short, it could see for itself, where formerly it had been asked to make its observations through the spectacles of an-

less and to the widow? and have not I given you the love and reverence of daughter? Forgive my obstinacy, other, and do not altogether break my heart by going away in anger.' Well, there, then, child, there. Kneel

down and take my blessing. I was vexed, no doubt; but, after all, God himself guides such as you, and I need not to meddle. He and shall no

secute you, nor shall anyone." So that danger went by, and the

winter passed. Mary opened h besides her household duties and the care of her little ones, found time t carry on the lessons her husband had branches of the village sch The governor occasionally examined the lad and looked at his books, genter before he left her by prophesying that in a few months more master must his education, already outgrowing a

(To be Continued.)

"The Common People,"

ed of murder-photomicrography will tell widowed mourner should, after the want is a medicine that will cure briefest possible widowhood, take an-other partner, and raise up children for the Lord and his neorle the tale. It will establish whether the many thousands voluntarily say.

> Hood's Pills are the best after dinner pills, ion, cure headache. On July 31, 1895, the telegraph companies of the world were using 2,500,000

No family living in a billous country should be without Parmelee's Vegetable Pills. A few doses taken now and then will keep the Liver active, cleanse the stomach and bowels from all bilus matter and prevent Ague. Mr. J. Price, Shoals, Martin county, Ind. "I have tried a box of Parmewrites: lee's Pills and find them the best medi-cine for Fever and Ague I have ever have scratched the enemy of his or her used.

The deepest English coal shaft is the Moss colliery, near Ashton-depth hundred years, but only within the last 2.820 feet

seventy years has the instrument for the A Prominent Lawyer Says: examination of minute objects, or parts of "I have eight children, every one in objects, which enlarges the visual pictures good health, not one or whom but has formed upon the retina of the observer, taken Scott's Emulsion, in which my wife has boundless confidence." undergone the wonderful improvements The Mormons believed that Joseph which make to-day one of the most valu-Smith knew of the whereabouts of the able adjuncts of science and criminark of the covenant. alogy. For the reasons stated, it would,

THERE IS NOT a more dangerous class of disorders than those which af-fect the breathing organs. Nullify this danger with Dr. Thomas' Eclectric Oil persuading a jury of a fellow-man's guilt. fect its union with photography is a neces--a pulmonic of acknowledged efficacy. sity. It cures soreness and lameness when applied externally, as well as swelled neck and crick in the back; and, as an ciency and a large and expensive plant. inward specific, possesses most jubstantial claims to public confidence.

A Nuisance.

to a great many people are Babies and Baby Rockers. We have hundreds of them, and as they are no use to us and greatly in our way we have decided to sacrifice the lot, so come along and take your choice, KEENE BROS., 121 King street.

Connoisseurs of driving patronize Overmeyer's livery, Richmond street north, as he has only the latest style of rigs. 'Phone 423.

Don't Read This .- In order to introduce a new brand of sardines which usually retail for 25 cents, we will sell them for 15 cents. They are imported French sardines of the finast quality, T. M. Shoebotham & Co.

screen. Another method is that of using a photo-

At the end of this object lesson he produced the photomicrographies. The identity of the first. presenting corpuscles of human blood, was easily recognized, for the micrometer proved that those in the pictures had exactly the same circumference as the minute parts of the blood of their foreman, which they had seen drawn from under the microscope.

The second picture introduced represent ed corpuscles of the blood of a pig. that is. the animal from which the prisoner said the blood on his shirt had come. It was demonstrated that the corpuscles in pig's blood have oval form, and besides are considerably smaller than those in human blood. To demonstrate the point further the photograph exhibiting magnified corpuscles of goat's blood was shown. These again are smaller than the corpuscles of pig's blood.

After this the prisoner broke down and confessed to the murder, "recognizing," as he said, "the hand of God in the discovery which made clear to the eyes of the world the crime that he committed in the dark of the night, unobserved by anybody but the Almighty." It may be interesting in this connection, to observe that the corpuscles of the human blood exceed in volume those of all cur domesticated animals. Human blood is, therefore, always detectable; it can be recognized under all and any circumstances.

The photomicrographical pictures of "man's beard hair," "tip of woman's blood found is from a human being or not. whether it is from the person murdered or hair."""tips of man's hair," "roots of wofrom that of the supposed murderer. Almost the same holds good with respect to man's hair," "root of man's hair" given hair. It can be determined by the instruherewith also played a decisive part in a ment mentioned whether the hair is from murder trial. Two men had been arrested the male or female; be it ever so small, for the murder of a certain person. On the it can be matched with the hair of the susgarments of one, which were saturated pected person. When the finger nails of with blood, a woman's hair had been the latter are scraped even the minutest found; that is its identity as such was established only after it had been photoparticles of skin will be found, and this skin put under the microscope will demonstrate graphed under a microscope, as is shown in the engraving exhibiting tips and roots its own origin. Like experiments will be made with the accumulations under the of woman's hair. Upon the person of the finger nails of the murdered person, who in the struggle with the murderer may



second prisoner was also a quantity of human hair found. The microscopical camhowever, by itself be of small value for era showed that it was man's hair, partly from the head and partly from the beard. To make the ocular demonstration per-The person murdered was a woman, the wife of the first prisoner, and the hair on his clothes was identical with that on the The attainment of results in microdead woman's head. This settled his conscopic photography demands ample profinection with the case.

The prosecution maintained that more A mateur detectives, who at the same time than one person had been concerned in the are amateur photographers, sometimes exmurder. The second prisoner, however, periment with a self-constructed apparatclaimed an alibi, which could not be disputed by direct evidence, as it turned out. Finally the judicial expert hit upon the plan to compare the hair found on the clothes of the second prisoner with those of the first prisoner. Specimens of the latter kind were procured, but ocular comparison failed to establish their similarity. Then photomicrography was tried, and by these means it was proved beyond doubt that the hair came from the same nead and beard.

To fully appreciate this it must be understood that human hair differs vastly-"no two hairs alike," says a scientist. A hair

Pope Leo owns a pearl which the ex. perts say is worth \$100,00 in gold.



Baby was troubled with sores on head and legs. I tried "Palmo-Tar Scap." In a very short time the sores disappeared, skin became smooth and white, and the child got perfectly well. Mas. Houseway, Orediton. Only 25c. Big Cake.

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Trains leave London-6:25 a.m., 19:05 a.m., 2:39 p.m. and 7:00 p.m. The 10:05 and 7:15 trains run to St. Thomas only. Trains arrive at London-8:45 a.m., 2:05 p.m., 5:45 p.m., 11:15 p.m. accommodation for 500 guests

MICHIGAN CENTRAL RAILWAY.

Trains leave London-30 a.m., 2:55 p.m., 7140 p.m. These trains connect with the main line trains at St. Thomas, east and weet. Trains arrive at London-7565 a.m., 1:10 p.m., 503 p.m.

