X RAYS IN DENTISTRY LADY ROBERTS. 17 HO IS SAID TO BE THE ENEMY OF BULLER.

THEIR APPLICATION A DEVEL-OPMENT OF PRESENT CENTURY.

Professor Price Belives the Road to the Mouth an Organ to Be Particularly Cared for.

Cleveland letter: The use of X-rays by the dental profession as a progressive measure is one of their forthcoming beares lending light to their developments in surgery.

The excellent service they can render was demonstrated by me in detail and technique at the recent meeting of the Roentgen Society of the United States in New York. I show now how their application can be roughly worked out. Some of the many applications are as Rollows: "It is a matter of frequent occarrence for one or more teeth to be decayed in their eruption or perhaps they miways lay concealed just below the sur-

It also frequently occurs that they are never formed at all. In all such cases the Roentgen rays will locate them if present, in exquisite detail. showing their exact position and usually the cause of the delay. Take a practical case, for example, a lady, over 36 years of age, has never erupted her permanent cuspids, (improperly called eye-teeth or canines). These should have appeared at about 12 years of age. Her features were seriously marred by the large spaces left where they should have been. The gum and bone had receded to such an extent that it seemed quite certain they had never formed. The X-ray pictures show the teeth to be just beneath the surface and can be brought to place without any pain in a very short time with simple regulating apliance. This regulating could not been done to better advantage 15 years earlier had this information been known. I have had a good many cases like this, where one or both of the permanent cuspids were missing, and almost invariably, have found them em-

It is a comparatively frequent occurteral incisors never to be formed, around the teeth, about an inch and a er conditions in which the X-rays give though they are also often hidden just half long and half an inch in diameter. us just the information required. As her. He went to the saloun account a product the head of a man with a beneath the surface. They should ap- The abscess had its fistula back beside for example, absorption and decay of mear at about 8 years of age, but fre- the second bicuspid and it was thought the end of a root around which there quently are yet missing at 15, and a the seat of the trouble was in that vi- has been an abscess, and how the rays great question is how to arrange the cinity and was treated accordingly. The help us in cutting off the diseased part af it could be known whether or not the a radiograph, which showed the trou- around this amputated root, making it ed, the lawyer told him there was no missing teth could ever be expected, ble to come from the diseased root of a very firm tooth. Also cases showing defense, for the assault had been unwhich fact the X-rays demonstrated the lateral incisor, which had a year decay under fillings inside the tooth, provoked and \$100 would be dirt cheap to make space for them and fastened with a retaining appliance, and then all parties concerned waited for the appearance of the missing laterals. The laterals have never formed and hence

Many cases present themselves where a temporary molar is retained long after which teeth have his their roots filled, thei the time for it to be shed, and it cannot hence when a case resents with neu- third molars. Showing whether the enbe ascertained whether the cause is that raligia or swelling of the cheek the denhas never formed or is developing in the wrong direction, or is simply delayed. A boy aged 15 has retained firmly a temporary molar which would generalby be shed about 9 years of age. The permanent bicuspid has formed, rather is forming, for its root is complete yet, but is developing, it is mly producing absorption of one root both painful and estructive. While lected that an excellent radiograph of ing it very firmly in place.

Frequently serious irregularity and deformity can be prevented by recogmizing early enough that a tooth is developing in the wrong direction, when we see a bicuspid developing towards the roof of the mouth. Sometimes they develop in the wrong direction from some cause and get lodged against another wiating the other teeth, and thereby preand expression of the whole face. Very anfortunately we have never before had a means of recognizing these cases prior to the use of the X-rays. In one of These cases on one side above, but one bieuspid had been formed by nature Instead of two, and it developing back against the first permanent molar. The cuspid is fully errupted. Radiographs were taken three months apart, and it was found that nature was not correcting the position of the lodged tooth The girl had a serious depression of the epper lip. Partly because of this, it was necessary to correct the trouble, which fortunately was simple, when the facts were known. The temporary mo-Jar was extracted, and a very small regwlation appliance was placed on the molar and cuspid to push them apart to make room for the enpacted bicuspid to come down. The second view of the wase demonstrated the improvement in 69 days, and without a particle of pain to the patient. This tooth has been regwlated, though it has never been seen.

Probably there is no more painful complication of the teeth than an enpacted third molar, (improperly called wisdom tooth). It is usually caused by hes developing in the wrong direction, generally at an angle against the second

They are entirely covered by tissue, so their position or size cannot be ascertained, and hence are exceedingly difficult to extract. The third molar has formed at just right angles to its proper position, and is entirely under The effect of the tissue.

How many people will have an abscess about the teeth at some time, the exact location a cause of which could not be determined. Usually they are caused by a putrescent or dead pulp



There is a great kick in England against the management of the War brought them all to the camp? No one him said he could give me a hundred if Office, which is said to be too much under petticoat rule. The wife of "Lit- expected to work for it. tle Bobs" is said to have compelled her husband to insist on Buller's dis-

bedded in the bone, and frequently lodg- | (improperly ealled nerve). in some root which by its pressure on the nerves that the permanent cuspids are not tion, size and shape of the abscess, and carupt until years after the proper time. from the apparent sat of the trouble.

One of these absesses shows the exrence, however, for the permanent la- act extent of the ab orption of the bone and show pictures of a great many oththeth that are present to the best ad- trouble persisting in spite of expert of the root without extracting the tooth.

the trouble. The rasiograph is the ideal even before the temporary or baby prisoner said Bill was his counsel. method of ascertaining the cause, for it teeth are yet errupted. I could enumerwill show with great clearness the con- ate scores of other cases, but space will dition of the root anals and root fill- not permit. . whole condition.

There is a natural cavity in the bone subjects in his tudio. of the face just above the teeth, just be- The picture is taken on a negative low the eye, known as the antrum. which is a piece of special heavy trans-

had suffered for about three months minutes' exposure. Great skill and ex- dozen preachers.

ed against some other tooth, usually the tooth or an imperfest root-filling. The of the tisue was causing all the neu-enne and Sidney were both long and ralgia, for when this condition was dusty, he preferred to ride on a stage formed, though frequently they do not also its cause, whi h is often distant treated and the root filled the trouble was immediately cured.

> If space permitted I should tell you It is next to impossible to fill some fistula we have made and then radio- made, with the undertsanding that a can't get justice while"root canals perfect because they are graphing. In regulating teeth to show \$100 fee would be paid if the case was Gasping with rage, the justice threw have its roots fille properly, or it is of the teeth that are to be moved and by Bill. scess at the end of the roots. It is sel- Showing teeth in tumors of the face and dom that patients member corerctly jaws, of which I have several. Show-

ings, as well as the xact location of the It has taken a great deal of investigaabscess, thereby saling much time and tion to reduce this work to an exact expert labor in explaing, which is often procedure, but it has been so far perthe taking of the ralliograph is entirely the teeth or any of their complications without sensation and only a matter of can be produced in from ten to 30 seca few minutes to have a chart of the fonds with as much success as a skilled photographer would have done with his

BILL HOOPER'S

LEGAL LORE BY CEO.F CANIS.

(Copyright, 1981, by G. F. Canis.)

"Do you appear for the defense, Coun-AWYERS had poor picking selor Hooper?" asked the justice. Deadwood in the hurrah days of

the camp. Somehow the motley "The prisoner says you agreed to." crowd there got into the habit of "He's mistaken." bettling disputes out of court-mostly "Do you intend to take part in this with six shooters and Winchesters. Homicides were of frequent occurrence

-in fact, the "man for breakfast" "Do you refuse to appear in this schedule was observed. But vigilantes often interfered and persisted in drop-

ping the killer, even though discussion "What do you mean, Counselor Hoopof the incident was continued. Then, er, by taking a man's money and then too, when a shot was taken at a claim refusing to do your duty to your clifumper, that was considered a privi- ent?" leged communication, according to the "Didn't see the color of his money."

unwritten law. Except for the fashien was the only comment of Bill. He and and common practice of the camp all the justice were ancient enemies. The the lawyers in it-and there were lots later thought he saw a chance to put of them-would have had a case apiece the lawyer in a hole. He conferred and at short intervals. As matters/with the prisoner and then fairly roarstood, however, it wasn't often that any ed: "Hooper, you ought to be turned one of them was able even to arrange out of court and out of camp. The prisoner says he hired you to defend When Bill Hooper took a case for \$25 him and took you for a man of your his law partner seriously objected, word and depended on you and consultthough it was the first either had had ed nobody but you when there are in weeks. Bill said he did it to encour- piles of men in this camp what knows

age traffe. That was no excuse, for more law than you." while human anatomy might be carved Bill waited till the justice exhausted with impunity or any sharp instrument, himself and sank back in his chair. prices couldn't be cut. Bill expressed Puffing away at his cigar so he wouldn't the opinion that his client was a fool have to waste more time and matches for employing a lawyer anyway, for he on it when ready to resume his smok-

didn't have a ghost of a show of win- ing, he exclaimed: ning his case, and to take his gold was "You see it was this way: Jim come just like finding it. These were also to me and wanted me to take this case. trivial matters, he was informed. As I ind him I didn't want to take his for finding gold, wasn't that what money for nothing, but just to humor I got him off. I knew there was no use trying a case before this court and Bill wanted to stand well with his didn't fool away my time fixing for it. partner, who had kith or kin some-It's just like I told Jim-a man can't get where from whom he thought he could justice in this camp till we're rid of the borrow money if it came to the pinch. duffer what thinks he knows law and don't know a little bit."

"You die, did you?" howled the just-

rather than walk out of camp. From ice. "That's what I did," blandly remarkthe looks of things, unless business picked up one means or the other would

"So you go 'round telling the boys I have to be resorted to before long. It don't know nothing 'bout law, do you?" was policy for Bill to humor his part-The crowd guffawed in chorus, either ner. He went to the saloon keeper who because Bill's estimate was common property or the expression of it by the justice himself gave them a chance to concur therewith. Here the temper of charge of his case. When the client the justice boiled over. He thumped remarked something about it being a his desk and yelled out, "Did you tell wantage. This could quickly be decided treatment the patient was sent to me for Then showing how the bone fills in holdup game and declined to be rob- this prisoner he couldn't get justice in

"This is no court," was the comment perfectly. For example, a boy of 15 previously been filled, but was not sus- Showing whether we have lanced into to get him off. Bill pointed out that casm or implied insult, the justice rewas brought by his dentist to find the pected. Upon treatment in accordance an abscess or not, when relieving the the victim was likely to die, in which peated his question. It called forth this position of his permanent lateral incis- with the informatical of the radiograph great distress of an absressed tooth, event the place to which the ginmili response: "Yes I said just that, and ors, the central incisors had been the case had a speed and complete re- This done by placing small pieces of man would go was not noted for laying what's more, I believe it too, and so sterilized lead wire into the artificial up treasures. Finally a bargain was does everybody in this camp. A man

so small or crooked. On the other hand, the position of the teeth not errupted dismissed or the accused went free; himself on top of the desk, whacking it every tooth without a live pulp must and also to show the shape of the roots otherwise no charge was to be made with his fists till the boards cracked, the course of treatment was wrong, liable, soonerer or later, to cause an ab- how they are actually being moved. The trial was held in the office of the you, you clubfoot duffer, that a man justice of the peace, and the room was can get justice in this court: I'll show packed. Preliminaries over, the justice this camp what a liar you are, Bill

tist sometimes has to drill into teeth not yet errupted. Showing in babies He continued smoking, but made no he had promised, and then took the that are not at faul before he can find the teeth of the second set, forming other sign. When questioned, the next stage out of Deadwood, for he was afraid of vigilantes.

NOTABLE SERMONS.

bottle and told him he would have to

charge him \$100 instead of \$25 to take

Religious Discourse That Holds the Record for Pecuniary Value.

London Answers: The pulpit at by a preacher who was not a clergyman, and had never been ordained. This was in December, 1873, when Dean Stanley | Philadelphia Record: The remark-

498 (\$7,490). The money has been equally divided between the Gordon Boys' home and the British Home for Incur-

OLD-TIME STAGING.

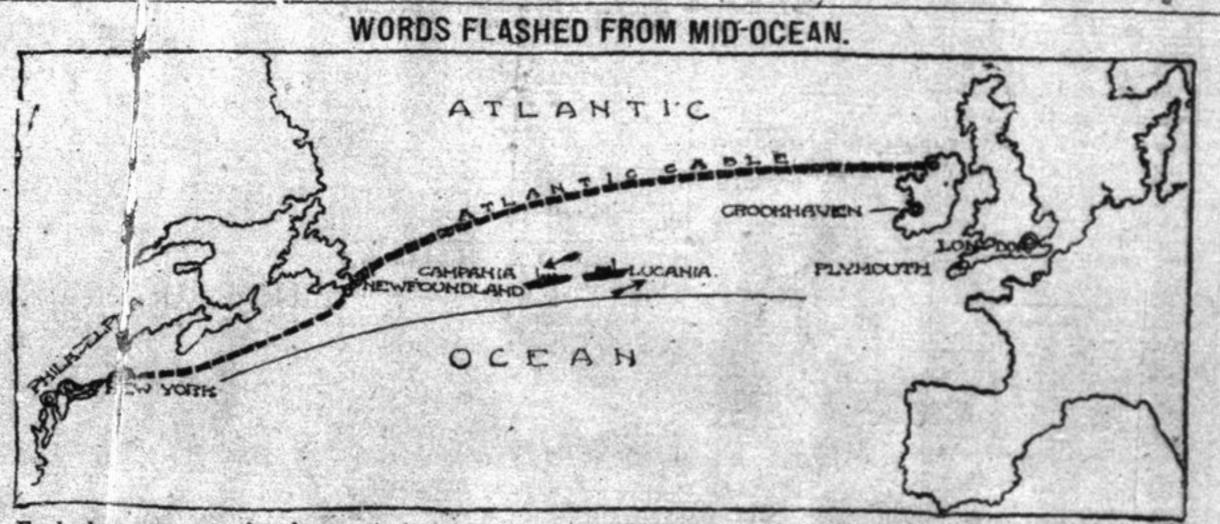
Westminister abbey was once occupied When It Took Three Days Between New York and Philadelphia.

Frequently this is the seat of serious parent film, with several coatings of invited Prof. Max Mueller to preach on able coaching trip between New York inflammation. The cause sometimes sensitive emulsion, preferably brown, the religions of the world. It was one and Philadelphia the other day, and the tooth, and if this could be known the arises from the pus of an abscessed This is wrapped in a light and water- of the most interesting sermons ever fact that the Philadelphia whips are matter could be easily corrected by reg- tooth draining into it, or from a dis- proof envelope, preferably unvulcaniz- heard, and when printed afterward talking about attempting to lower the eased root perforating it, all of which ed rubber, and cut into pieces about the brought in several hundred pounds. time made by young Mr. Vanderbilt and venting serious deformity of the teeth conditions are shown in the radiograph. size of a silver half dollar, but oblong. The world's sermon record is held his friends, recall the old days when the The few examples of practical cases One of these of the desired size and by the late Mr. Spurgeon. His sermons stage coach was the only means of mentioned are scarcely a suggestion of shape is placed in the mouth against the have been published weekly for fifty transportation between the two cities. the wide range of application, for I teeth to be radiographed with the tube years past, and there are still enough The first New York stage via Trenton have 500 example. I should mention producing the X-rays about ten inches to last several years more. Over 100,- and Perth Amboy was instituted by one other which represents a frequent- away-from the patient's face. There is 000,000 copies have been sold, and their John Butler in 1756. The coach left the ly-occuring complication. A patient no sensation and it only takes a few profits exceed those of any other half- sign of the Death of the Fox, a wellknown tavern in Strawberry alley, and with a severe net talgia and all efforts perience are required to produce the For the most valuable single sermon was scenduled to arrive in New York to find the seat of irritation causing it rays of the proper order for the partic- ever preached, it is, however, not Mr. in three days. In 1765 a second line of failed. The teeth ill gave normal tests, ular case and to properly understand Spurgeon, but Canon Fleming, who stages to New York was started, and Radiographs were taken of all the teeth the parts to be radiographed, and the holds the record. This discourse was another competitor entered the field in on this side and a blind abscess was picture, when it is properly taken, but first heard from the pulpit of Sand- 1766. This line was known as "The found at the aper of a bicuspid tooth this is so of all sceience and art, and as ringham church, on the sad occasion of Flying Machine," and guaranteed to which semed to be perfectly healthy, in these the necessity will produce the the dieath of the Duke of Clarence. It make the journey in two days. It start-The pulp or nerve in this tooth had died competent expert dental radiographs. was afterward published, and its profits ed from Elm street, near Vine. The veand caused the ab cess at the end of the WESTON A. PRICE, D. D. S., M. D. have since amounted to a total of £1,- hicles were advertised as "good stage wagons with seats set on springs," and the fare was 3 pence per mile, or 20 shillings for the entire route. When the railroad between Camden and South Amboy was built stage travel between Philadelphia and New York ceased, except for a short time, when the stage lines attempted to compete with the railroad. This means of transportation was finally abandoned in 1896.

It is worthy of remark that all the force and energy, as well as the capital, were supplied by the Philadelphia end of the line, thowing how, even in these carly days Philadelphia took the lend' in coaching matters.

The Buller affair has been lighted up afresh by a new version of the Ccleaso message to General White and by ramore that he is preparing a case for presentation to parliament. It is learned that he considers himself the victim of a South African conspiracy and threatens to unmask his assailants.

Five thousand dollars have been spent in vain for poison with which to kill prairie dogs in western Kansas.



Each day sees new developments in wireless telegraphy and opens up new possibilities of utility. The distance to which messages can be sent has been largely extended and electricians confidently predict that this . distance will yet become practically limitless. 'The above may shows the location or steamers when sending messages that have been successfully received in this country.