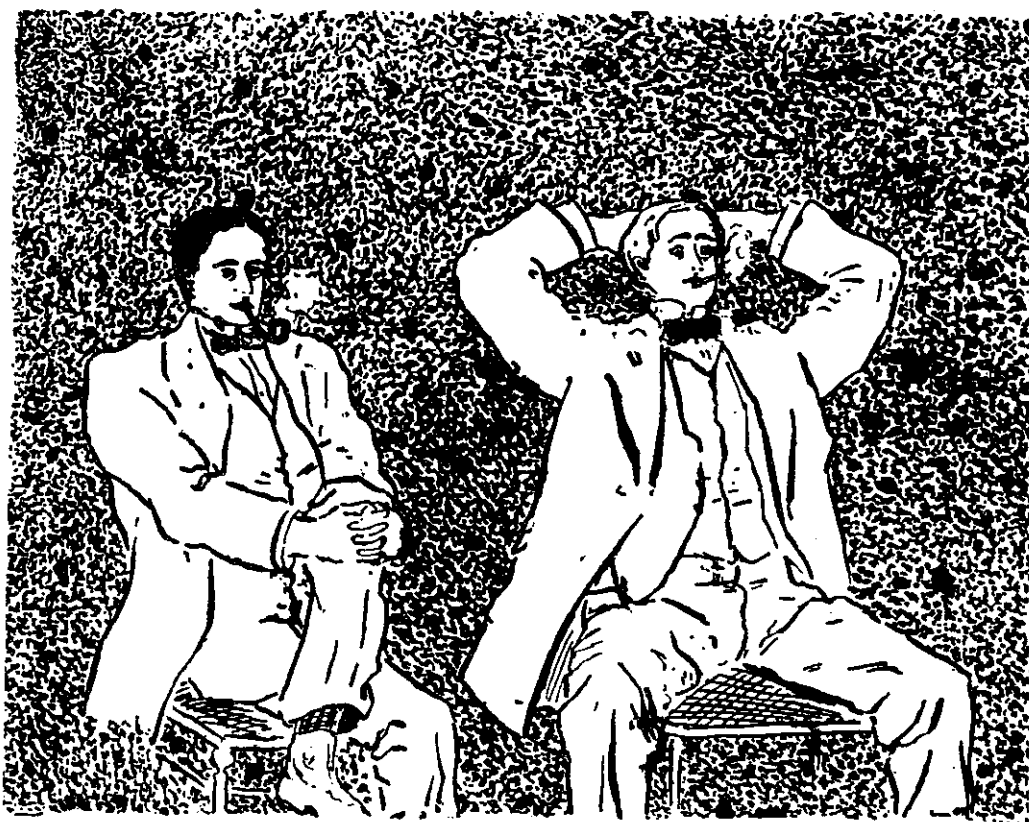




HE TECH



TOM: "I should think that Bill's iron constitution would have an effect on the galvanometer he's working with."

DICK: "Well, you see, it's partly counteracted by his steely nerve."

(Friends of the family are requested not to send flowers.)

VOLUME XVII.

NUMBER 21.

MARCH 24, 1898.



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THE TECH

VOL. XVII.

BOSTON, MARCH 24, 1898.

NO. 21

THE TECH

Published every Thursday, during the college year, by students of the Massachusetts Institute of Technology.

JOHN MAGEE, '99, *Editor in Chief.*

MORGAN BARNEY, 1900, *Assistant Editor in Chief.*

PAUL RAYMOND BROOKS, 1900, *Secretary.*

W. R. STRICKLAND, '98.

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GERALD MARTIN RICHMOND, '99.

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MAURICE DAVENPORT, 1900.

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PHILIP COOMBS PEARSON, '01.

ELLIS FULLER LAWRENCE, '01.

EDWARD B. COOKE, 1901, *Business Manager.*

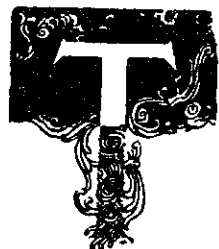
For the benefit of students THE TECH will be pleased to answer all questions and obtain all possible information pertaining to any department of the College.

Contributions are requested from all undergraduates, alumni, and officers of instruction. No anonymous manuscript can be accepted.

Subscription, \$2.50 per year, in advance. Single copies, 10 cts. each.

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THE proposition brought forward by the musical organizations of having a dance in connection with their spring home concert in Junior Week is an exceptionally good one. At present there are at Tech. few of the social events which mean so much to undergraduate student life at most of the American colleges, and anyone who gives a moment's thought to the matter will see how much is lost by this lack. Things of this sort can do much toward a more concrete banding together of the student body, and all should show their appreciation of this good movement by supporting it generously, both financially and otherwise. The concert and dance is to be given in Paul Revere Hall, and one ticket will admit to both. The price of tickets will probably be the same as at the concert last fall.

We hope and believe that these dances will become a fixed feature of the Institute life, and trust that all will help along the work by giving it the active interest which it deserves.



T has long been a custom among all but the few Institute men who have taken an active part or an active interest in Technology athletics to look with a feeling akin to pity on the efforts of those few to arouse the interest and athletic ability which has lain dormant in the school. The less courageous of those even who were closely engaged with athletic interests have often been discouraged and dropped, disheartened, into the ranks of the unbelievers. If by chance there has come into the Institute one of athletic ability already established, he has become a nucleus of growth and the prospect has brightened, but with him has left also the interest born of prospective success. The great lack has been and is a lack of a steady influence toward an active, live interest in the doings of the College athletes. Without such an influence it is but little to be wondered at that the life of football has been precarious and the interest in track athletics deplorably small. With such an influence the strength of the College spirit and student support, in respect to athletics, would depend no longer on the presence or absence of "stars" among our athletes, and to a much less degree on the "push" or absence of push of the officers of the Associations, but would be steady and vigorous, subject only to violent fluctuations immediately after a defeat or a victory, and quickly resuming its normal activity.

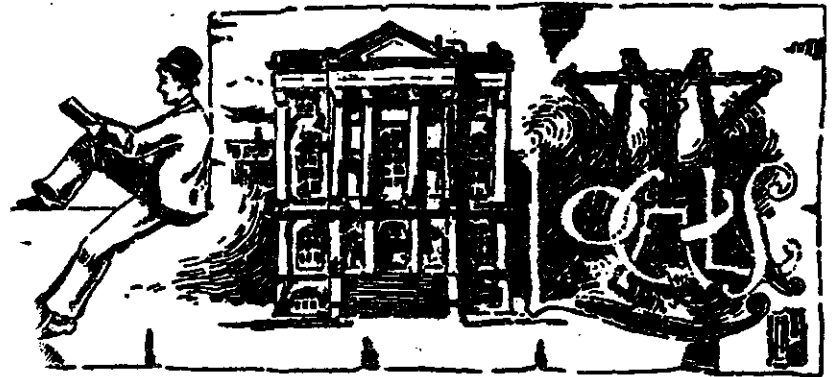
The influence that can do this, the same influence that has done much for colleges

before ours, and which to-day keeps alive the intense interest in athletics in all the prominent colleges of the country, is the presence of a rival, a "hated rival," if necessary; but primarily a rival who is constantly striving to excel us, and to contest on even grounds with whom we must strain every nerve. We have ability at present, exceptional ability in the Institute in athletic directions, and the present is a most auspicious time for entering into some dual or triangular league for a period of years which will excite the interest necessary to bring out to athletic work from each entering class the men who now prefer to put their energies elsewhere rather than work to no purpose. Luckily, officers of the Athletic Association appreciate this opportunity, and are about to exert influence to bring about the formation of such a league and put athletics on a firmer and surer basis.

Thesis Work.

CANDIDATES for graduation at the Institute are obliged to present as a thesis some original piece of investigation. Such a thesis is expected to relate to the professional work of the student, and is an important part of the last term of the Senior year. Many of these theses are of a very interesting character. Among those undertaken by the students of Civil and of Sanitary Engineering are the following: A design for a steel highway bridge across the Charles River between Cambridge and Brookline, with a drawspan similar to the "Scherzer Rolling Lift Drawspans"; experiments on the pipe line that the city of Cambridge has running from Stony Brook to Fresh Pond, including measurements of the flow through pipe, of the friction loss, and of the change in the carrying capacity of the pipe which has been in active use for about fifteen years (this case is especially interesting, as the line runs for part of the way above the hydraulic gradient); a two-hinge steel arch span of one hundred feet to carry a four

track railroad with ballasted floor, similar to the Washington Bridge in New York (this will be better looking than the ordinary railroad bridge, and brings in interesting problems in undetermined structures); a series of experiments to determine the coefficient of friction of liquids under very low heads and in small pipes (this case occurs in the heating of a house by hot water, where the boiler, to raise the water to the necessary height, must maintain a corresponding pressure, while the coefficient of friction through the small bore of the pipe becomes quite considerable. This subject has not been investigated within recent years, and information would be of value); several designs for sewage disposal, some by water carriage and some by sewage forms.



The next number of THE TECH will be a special 1900 number.

The Mandaman Club held a dinner at Young's Hotel last Saturday evening.

The Summer School in Civil Engineering will be held this year at Passamaquoddy Bay, Me.

Last Friday evening the Banjo and Mandolin Clubs gave a concert at the Boston University, 12 Somerset Street.

At the Newton Winter Tennis Club Tournament on Wednesday E. G. Thatcher, '01, was defeated by P. W. Wrenn, 6-3, 6-3.

The Gun Club held a shoot last Saturday at Wellington. The members took the 1.46 and 2.45 P. M. trains from Union Station.

At a meeting of the Freshman Class, held on Monday, March 7th, the preliminary report of the Class-dinner Committee was heard.

It is said that the esteemed Historian of the Senior Class is to enter the Intercollegiate Golf tournament to be held at Ardsley-on-Hudson in May.

Mrs. Ellen H. Richards, A.M., and Mr. A. T. Hopkins read papers before the Society of Arts on "Certain Sanitary Aspects of Jamaica," last Thursday afternoon.

Howard A. Carson was elected President of the Boston Society of Civil Engineers on March 17th. Samuel E. Tinkham was re-elected Secretary of the Society.

Mr. Chas. D. Jenkins, Massachusetts State Gas Inspector and a graduate of Technology, lectured to the Industrial Chemists last Thursday on the manufacture of illuminating gas from coal, water, and petroleum.

Goddard and Koch, Senior Mining Engineers, had their copper smelt last Thursday. Most of the '98 miners were present, and the run was one of the largest that has been held at the Institute for several years.

The Cercle Français of Harvard University has arranged to give Molière's "Le Médecin malgré lui," with Gounod's music, and ballets, on the following dates: Cambridge, in Brattle hall, on April 11th and 14th, at 8 P. M., Boston, in Copley Hall, on April 12th, at 8.30 P. M.

At a recent meeting of L'Avenir, Professor Despradelle entertained those present with an interesting account of some personal experiences of student life in Paris. The following men were elected members of the society: F. A. Colby, 1901, F. H. Bond, Jr., 1901, A. B. Campan, 1901, and S. W. Ritchie, 1901.

The Glee, Banjo, and Mandolin Clubs went down to Newburyport on March 17th. They gave a concert that evening and also an

assembly dance, which was attended from far and near. The week before the Clubs did the same at Milford, and these two trips have been the brightest and pleasantest of the season.

During the summer Mr. Boos will be Physical Director of the Riverside Recreation Grounds at Auburndale. This will afford our efficient physical instructor a wide field of action, as nearly every outdoor sport will be provided for that can be secured by a beautiful situation on the banks of the Charles River and extensive lands.

Mr. A. W. Grabau, '96, will address a meeting of the Geological Club this afternoon on "Coastal and Peneplain Elements of Topography." Mr. Grabau, who was an assistant at the Institute last year, and is now a Fellow at Harvard, is a high authority on this subject, and will doubtless make his lecture very interesting.

This week's meeting of L'Avenir was held in the lecture room of the Bernard Phonological School, 195 Tremont Street. M. Charles Bernard gave a practical lecture on his phonological method of teaching French. The following men were elected members of the Society: H. T. Blanchard, W. C. Appleton, P. Y. Dunwoody, W. G. Holford, C. T. Bilyea, H. L. Kelley, W. T. Aldrich, W. M. Vermilye.

The '98 Portfolio Committee has decided on Elmer Chickering for the class photographer. Members of the class are requested to sit as soon as possible, so the Committee can have the cuts made for the Portfolio promptly. The rates are for cabinets, carbon finish, and crowns, carbon finish, one dozen, \$3.00 and \$3.50. Lots of fifty, two negatives finished, \$7.00 and \$8.00 respectively. Extra dozen, \$1.50. A deposit of \$1.00 is required from every sitter.

The "Technique" Electoral Committee of 1900, elected by the Class last Friday, is as

follows: W. J. Angus, M. Barney, J. H. Batchelder, G. H. Belknap, P. R. Brooks, W. C. Chaffee, A. M. Constantine, W. C. Dean, H. R. Dunbar, S. G. H. Fitch, H. M. Flanders, C. F. Gauss, R. H. Glover, M. W. Hall, H. D. Jouett, C. M. Leonard, H. M. McMaster, H. A. MacPherson, A. V. Möller, H. E. Osgood, W. L. Rapp, R. P. Roberts, G. O. Schneller, S. C. Sears, L. Stewart.

A Graduate School of the Mechanical Engineering of the Railroad is now being organized at Cornell by Prof. H. Wade Hibbard. It is intended primarily as a graduate school, but it will also be open for undergraduate specialization. Its courses will include instruction in machine design, shopwork, electrical engineering of railroads, and tests. This and similar action taken by other colleges would seem to show that they are beginning to realize the importance of the very subjects in which Technology has given her students such thorough training since foundation.

Advisory Council.

At the first meeting of the Advisory Council on athletics F. H. Briggs, '81, was elected President, and H. L. Morse, '99, Vice President. The athletic situation at Technology was discussed and methods suggested for the collection and care of funds for the Athletic Association. Printed reports on our athletic standing will be sent to the alumni, in an attempt to secure their interest and co-operation with the undergraduate body in supporting the Association. It was also decided to present a letter to the corporation stating the changes and additions required at the Gymnasium. The next meeting of the Council will be held Monday evening, the 28th.

HER ANSWER.

We sat in the hammock by moonlight;
 "Can I kiss you?" I said, with a sigh;
 She replied in an artful manner,
 "You never can tell till you try."

—Williams Weekly.

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 Fine Furnishings, etc.

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Correspondence solicited from all who have been connected with the Institute.

'94. The Class of '94 has recently published a Class Book. It was the intention of the editors to make it a Graduate "Technique," embellished with drawings, bound in cloth, and including many features of interest to the Class. This was found to be impossible, owing to the expense, but instead they have issued a neatly printed volume of one hundred pages, bound in paper covers. It represents the Class history from the time of "Technique" '94, and interesting statistics of the Class are given, with comments by the editors. These include the record of each man in the Class since he left the Institute, the matrimonial ventures, "etc." It is worthy of note that a poll of the Class showed that the average salary was \$1,266 per year, against \$1,200, the sum named by "Technique" '98. The main part of the book is called "Toasts." In it a large number of letters from members of the Class are reproduced. They usually deal with a subject with which the graduate has been associated since leaving M. I. T. Most of them are quite amusing. As a whole, the book is an admirable production. The Committee was Messrs. Walter E. Piper and George W. Sherman.

'97. Mr. E. P. Osgood, Course XI., is Inspector and Junior Engineer on the fortifications for the defence of Key West.

'97. Mr. Oren B. Smith, Course III., has recently become superintendent of a mine in the wilds of British Columbia.

'97. Mr. Thurlow Washburn, Course III., is prospecting near Grafton, New Mexico.



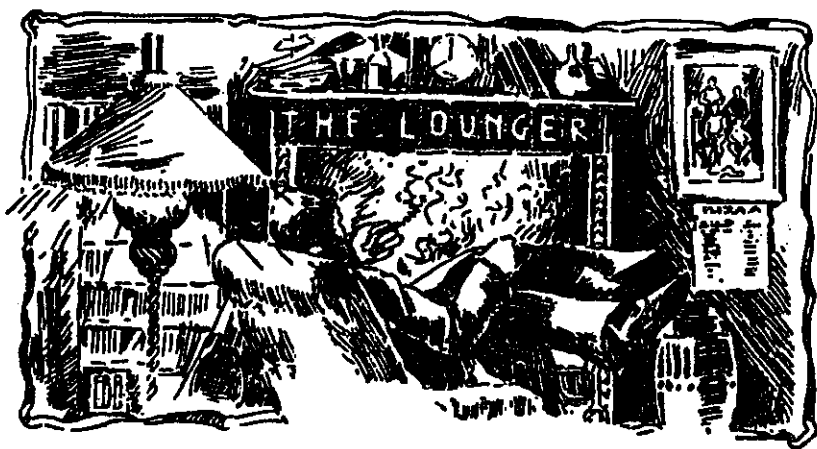
A new discus has been purchased for the gymnasium, and the new floor is entirely finished.

The cross-country run last Saturday was omitted on account of the rain. It is hoped that the men did not omit their training for the Coolidge's Corner run.

A large attendance is desired at the games on Friday evening. The Advisory Council should find enthusiastic support as it enters into its labors for our athletic welfare. It is expected that the graduate as well as the undergraduate members of the Council will be present.

The work in the compulsory course of Freshman gymnastics at Yale has been put to a strong test during the past months, and the scheme has proved itself a very practicable one. The work has been decidedly progressive, and the results very gratifying to the instructors in charge. The course has been relieved of monotony as far as possible by a change of work every two or three weeks.

The Executive Committee of the I. A. A. A. A. met in the New Haven House at New Haven, Saturday afternoon, to hear the reply of Cambridge University in regard to the challenge sent by the American colleges in regard to an international collegiate field meet. The substance of the reply was practically the same as that received from Oxford, Cambridge refusing on the ground that the status of the English athletes as amateurs was above suspicion, while that of the athletes in many of the American colleges was questionable.



WITH the advent of spring comes a great grief on the soul of the Lounger. Truly is it written that man enjoys only when the enjoyment is denied. Or, with the poet,

"There's not a joy the world can give like that it takes away."

To such and such like broodings is the Lounger constrained to give vent in the course of his Sunday constitutional, when he observes the fair landscape well-nigh obliterated by the procession of creatures who ordinarily obtrude themselves and their wheels on the public view. Especially painful are they at this season of the year. Here have we more or less successfully arrived at the conclusion of the winter season with free passage of our streets from these interlopers. Now do they appear in force upon the highway and afflict us with their dangerous speed, with their hideous sounds, and with their mostly disagreeable personal appearance. As to this latter consideration the Lounger has personally inspected many hundreds of cases, and will answer to the general correctness of his statement. As applied to women riders he has yet to meet with the one to whom the position and dress is personally attracting. As to those whom he is accustomed to observe on the highway on a Sunday morning, there is little of the feminine apparent. In all the scale of human nature, the front seat of a mixed tandem is quite the most unpleasant object with which a self-respecting personage would wish to be acquainted. And now are we to be deluged with many thousands of these for the next month's time? With pleasure, therefore, we believe our Co-eds. have not yet descended so low in the grade of civilization. For this, and for all other blessings which they deserve, are we truly thankful. But the many of the Sunday crowd will continue to parade their ugliness upon us, from which there is no escape, so that only now, too late,—do we appreciate the quiet, and the calm, and the beauty of

the unobstructed and unimpeded highway and hill-side. Would that, in the pleasantest season of the year, we might have it without this admixture of tarnish and tinsel.

The Lounger was pleased to see by a notice on the bulletin-board of the Glee Club, recently, that that organization was to hold a "Business Meeting." This is undoubtedly pleasant, but the Lounger would suggest the phrase "Lunch" as more succinct.

The Lounger sympathizes with the careworn President of the Junior Class, slave to the arduous duties of office. Though on the verge of physical wreck, he still enjoys the possession of his mental powers to a degree sufficiently astonishing. In support of which, the following: This gentleman is in the habit of journeying to our common "mater" on the same train as your servant. On account of the nervous strain, so he said, attendant upon duties of the aforesaid office, of which the agony of Institute Committee meetings is not the least, he generally succumbs, in the course of the journey, to the soothing influences of a quiet nap, the Lounger meanwhile paying his respects to his briar in a forward car. It is our habit, when reaching our station, to meet outside and travel together to the Institute. Now the aforesaid gentleman is a sound sleeper, and no little curiosity was aroused in the Lounger's mind to learn how he punctually awoke at the proper moment of leaving the train. To all inquiries as to which, he remained strangely silent. Thereupon the Lounger resorted to strategy. Now, after many failures, owing to the trickery of a certain fair accomplice, he has at last unearthed the base treachery of this supposed friend, the mere mention of whom fills the Lounger with horrid wrath. Now, at last, he exposes his shame to a justly angered world, for the other morning on the Lounger's returning to the rearward car somewhat before the time of arrival at the usual station, he found this fellow asleep, it is true, but,—you will not believe it, and the Lounger could not at the time,—his head resting upon the shoulder of a fair young maiden! Ah, so this was his trick, to get me stowed safely into the forward car, while he chatted pleasantly—in his sleep—to the dear girl! No, Mr. President, hereafter the Lounger has nothing but two-year-old exchange clippings for you.

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Dinner, 7 Meals	1.75

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Week beginning March 28, 1898.

Tremont Theatre.—The engagement of Mr. Digby Bell is looked forward to with great interest. It is his first appearance in comedy drama, and he will present a new play entitled "The Hoosier Doctor," written for him by Augustus Thomas. He is supported by a company of well-known players.

Boston Museum.—"Jack and the Beanstalk" has had such enormous success in Boston

that the engagement has had to be extended for two weeks longer than originally planned. Miss Lessing, who is always a great favorite here, is repeating her success, as is also Miss Hollins and the rest of the star company.

Hollis Street Theatre.—Miss Julia Arthur will make her Boston debut as a star in her new play, "A Lady of Quality," a dramatization of Mrs. Burnett's novel. Miss Arthur will bring her entire New York Company and scenery, and the production promises to be a magnificent one.

Castle Square Theatre.—This week the stock company will produce Mrs. Ryley's comedy, "Christopher, Jr." The play was a great success at the Hollis three years ago.

Boston Theatre.—Special engagement of Boston's favorite actor, Denman Thompson, in that sterling picture of New England life, "The Old Homestead."

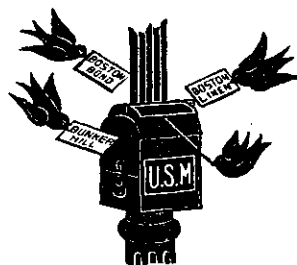
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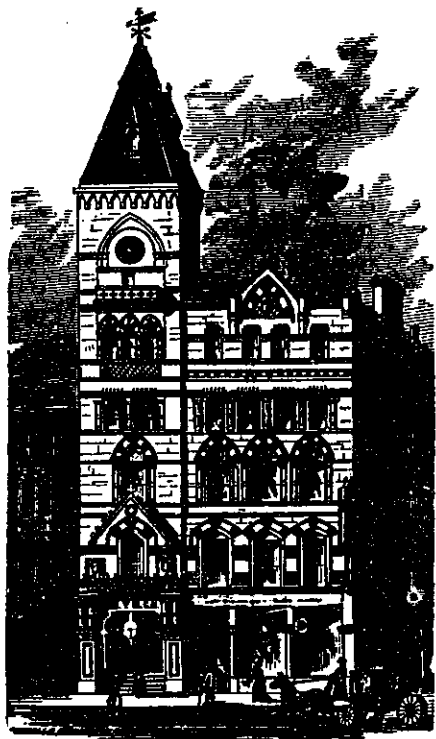
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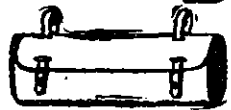
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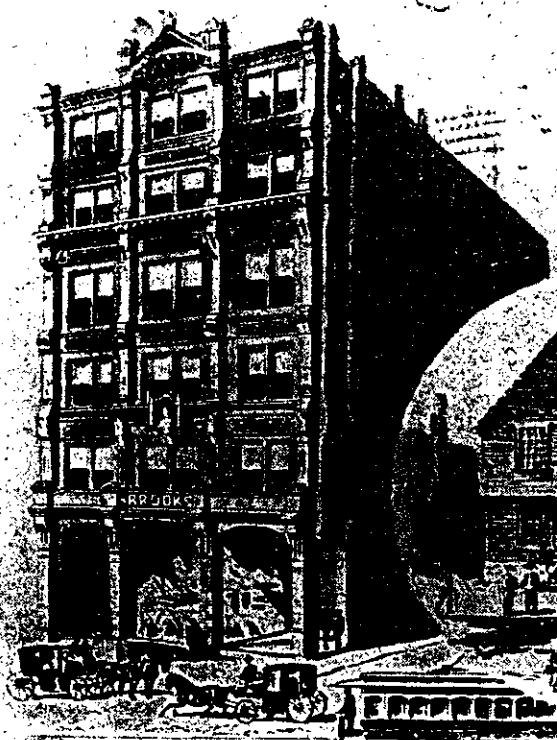
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