F. Baumann 43 Pine Grove Ave Chicago Dec. 14. 1907 By S. Mr Glean Brown Sear Sir,
The Convention Says have been of great pleasure to me I have since received the Nov. pumber of the Inland Architect and therein read with renewed gratification your tribute offered to the Memory of Saint Gaudens. Kinsty excuse an old man's young idea. It refers to our Sky serapers, which Soubless hape become the most prominent feature in modern Architecture It may be worth while to inquire into their origin and learn as to how and when exclusive the first instigated to for and who had the first building windows

of the kind exected. It would seem to me that this topic lies within the prove ince of the A. J. A and may be taken up and settled outer rules gravailing. Probably the Public would be interested in this investigation. What I believe I to know in regard to the matter I have bluntly Raid down on the judosed paper, in order to make - try to - It somewhat interesting, of possible. Talso know of a patent on such construction taken in 1856 by some Minneapolis Architect. When years ago the matter reappeared on my went I recovered 3 ground phans and an elevation of the building first so designed. It would afford me pleasure to surrander the plan They care is before you as Officer before a Directory . - There proched to Mr J. M. Carriere a letter, with inclosure, with request to maile to you. In it are ideas as to an ultimonte ideal state of the Profession which I sapect will engage your attention, - though but, possibly, with a smile In most friendly broposition

Yours very truly

addenda Annax to Construction of Tall Buildings and their business. The paper was printed in 1884, Late. Printers Seed o few years there after & with them their & business. Eract Sate can not be had. Early is 1884 Sen. A. C. Sucat (long Secural) Manager of the Change Branch to the S. York House Fire Sus. & arranger for a private kompatition bears. Im W. L. B. Jenney, Mr John Addison and myself as to of the Lome Office Building mine stories high. Mer Jenney was winner; so for what I know notice of us had seen another's plans. The first 9 stories building had been built a year prior by Mans. Burnham & Root [destroyed to make room for 1.5 Mational, But I, always bent on movelties, has made my plans on an idea, thus far enting new, of concealed iron construction, fles this war in 21 paragraphs and has them printed before the year ended. The ivea, was but commonplace, though new it poas. Any bedy had his chance, though a pine storied building did not expressly call for it, But when more than 9, when 13 stories were demanded, there seemed to be no other way of practical success, except through iron construction. Some 12 months after my publication of the matter, the task has come to Mason Rolabird & Roche in designing the Jacoma. Independently on their own account they had laid it out on correct iron construction and completed it in winter 1886-7 as the first of the present Kind of tall buildings in the world. Theirs is a glory in fact, mine but one in idea.

The Home foundat I believe to know, is but ordinarify constructed hover

There was no there iron framework in sight, as carried ahead of the masonry.

This executive part of a concealed even construction morehere and at no time came sight to femme to whom I was befriended, never mentioned to me his share in the glory above alluted to, and I seriously doubt whether he ever believed in it. Sec. 1901

St. Baumann

IMPROVEMENT

-IN THE-

Construction of Call Buildings.

- a. There is in life no exception from the laws of competition. It is proper, therefore, to view the matter of building in this light.
- b. Occupants seek convenience, secureness and light; all this, of course, combined with a shine of elegance.
- c. The highest success in a happy combination of these four points will lead to the highest possible and most permanent rental.
- d. Structures wholly composed of iron would in this light be the most preferable, were it possible to clothe them with proper elegance, and were they proof against neighboring fires.

Hence my

CONCEALED IRON CONSTRUCTION

OF TALL BUILDINGS.

- 1. The design is to erect on foundations a firm and rigid skeleton or hull of iron, and cover the same at once with a proper roof.
- 2. During the time of erecting such iron structure, or hull, from within, the enclosure—be it stone, terra cotta or brick, or any combination of these materials—may be erected from without.
- 3. But the within work would proceed much faster than the without work. While the hull may be roofed within two months, the enclosure might not have proceeded beyond the fourth story.

- 4. No delay will be caused by this to a steady progress. Derricks may be set on the roof, for finishing the outward enclosure, in an easy and convenient way. Large, unwieldy and dangerous tall derricks are discarded.
- 5. During and at the same time, the interior work would be pushed and brought to an end. The erection of partitions, fire places, raults; arching of ceilings and lining of exterior walls, would be accomplished.
- 6. Thus all interior work would be done and made ready for lastering, during the time required for accomplishing the exterior parts.
- 7. This process would make the work far more independent of weather than is the usual process. The erection of the iron hull is, in its tature, a rapid process.
- 8. The practicability of erecting buildings on Chicago soil, twelve and more stories high, becomes a fact.
- g LIGHT the most indispensable desideratum with a building procured even in the lowest, most valuable, stories, where otherwise the necessarily broad piers would be a hinderment.
- ro. The piers may not only be made narrow, but shallow also inches at the most—and this, again, is a saving of light
- T1. The iron uprights are to be provided with a series of proecting brackets for the purpose of anchoring and *supporting* the parts prming the exterior enclosure.
- These supporting brackets to be so arranged as to allow an independent taking out of any part or portion of the exterior lining, which which the been damaged by fire or otherwise.
- The iron floor girders are securely fastened to the outward bosts at both ends. This imparts firmness to the structure. And more, enhances the bearing strength of the girders to at least one and a half the part of the girders to at least one and a half the part of the girders to at least one and a half the part of the girders to at least one and a half the part of the girders to at least one and a half the part of the girders to at least one and a half the part of the girders to at least one and a half the girders are securely fastened to the outward to t
- 14. The iron floor beams are fastened to the sides of the girders, and will gain thereby at least 20 per cent to their strength.

- 15. Vaults, partitions and fire-places may therefore be placed upon the girders without increase to the dimensions of the same, and floor beams may be made lighter than usually.
- 16. This will enable the expert to save, on the substance of the necessary iron, enough to pay for the extra labor of riveting all parts.
- 17. A vault 4 feet x 5 feet within, built of porous fire bricks, with walls 9 inches thick, without special (unnecessary) arching, but having light steel plates in its concrete floor and ceiling, will not weigh to exceed four tons.
- 18. A fire-place built against a partition of light hollow tiles, and with flues specially made of same (fire-clay) material, will not weigh to exceed one ton.
- 19. Both vault and fire-place may therefore be built at any place, and in any story, upon a girder, without requiring even as much additional strength to iron girders as is gained by the riveting at both ends.
- 20. The extra cost of iron posts required in exterior walls will be, in an eight-story building, about offset by what is saved on masonry.
- 21. Buildings with more than eight stories would be—circumstances being equal—the cheapest with my new construction.

The above twenty-one points plead in favor of my

"CONCEALED IRON CONSTRUCTION,"

and show it to be a saving in the four most important items in the construction of buildings, which are: Light, Convenience, Space, Time.

Respectfully submitted,

FREDERICK BAUMANN.