#### Air Conditioning American Movie Theatres 1917-1932

Movie Theatre Chains

and Studios



### The Big Five and Others

In the earliest years of the motion picture industry the functions of production, distribution and exhibition were controlled separately. But the film makers realised that profits could be improved if they took control of <u>all</u> these functions. So in the decade 1920 to 1930, between the end of the Great War and the start of the Depression, the *Studio System* evolved.

Film historians record that eight studios located in Hollywood, California, five of which were major organisations, came to dominate the industry, making not only the films but building or becoming owners of the theatres that showed their films. And of course they controlled the distribution by showing their most important films in their theatres. Between 1930 and 1948, the eight majors controlled 95% of films exhibited in the USA.

The big five studios were **Warner Bros Pictures**, **Paramount**, **RKO** (Radio-Keith-Orpheum) Pictures, **Loew's Incorporated** (which became **Metro-Goldwyn-Mayer**) and **Fox Film Corporation**. The three smaller, but important, minor studios were **Universal Pictures**, **United Artists** and **Columbia Pictures**.

Movie Theatres became decorative palaces, designed by leading architects who became experts in ways to impress the viewing audience. The big-five went on to control about 50% of the seating capacity in the USA in mostly *first-run* houses in major cities.

At their peak in the 1930s Paramount (Paramount-Publix) had over 1000 theatres; Warner and Fox each had some 700, Loew's (MGM) had somewhere between 150 and 200, while RKO also had about 200 (In 1936 RKO became the operator of the world's largest movie theatre- the 5940 seat Radio City Music Hall in New York which had opened in 1932, though one source claims the Roxy in New York had more seats).

#### Meanwhile in Chicago:

Ensuring the comfort of the public became an important consideration in attracting people in hot and humid weather. Air conditioning in movie theatres was pioneered by the Wittenmeier Machine Company, starting in 1917, using CO2 refrigeration machines in the Chicago theatres of the Balaban & Katz chain. During the 1920s, air conditioning became an essential requirement in the new prestige movie theatres of the "big five" chains and was adopted by many of the smaller independents.

The Balaban & Katz chain eventually owned about 125 theatres, but never made films. By comparison, at their peak, Paramount was releasing a new film every week. Shortly after 1935, Barney Balaban and his management team moved to Paramount in Los Angeles and after being made President of the company put them on the road to greater and greater profits.

#### **Antitrust Proceedings**

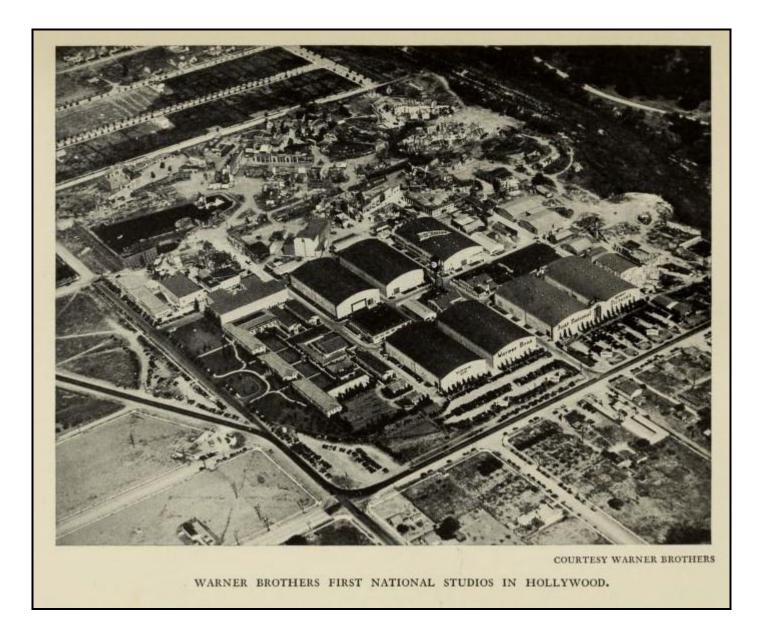
In 1948, after some ten years of argument and litigation, the United States Supreme Court in an antitrust case changed the way that the Big Five produced, distributed and exhibited their films. The result was that the Big Five gave up the ownership of their theatre chains and concentrated running their studios to make films.

### **American Movie Theatres in 1931**

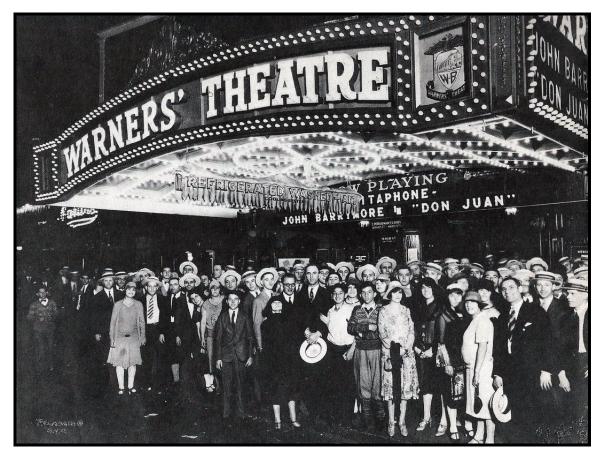
State	Number of Theatres	Seating Capacities	Population	Number Of People Per Seat
Alabama		105,443	2,645,297	25.9
Arizona		48,734	435,833	8.9
Arkansas	253	109,595	1,854,482	17.0
California		699,651	5,672,009	8.1
Colorado	2/2	128,296	1,035,043	8.0
onnecticut	107	173,775	1,604,711	9.2
Delaware		37,701	238,380	6.3
District of Col		41,254	486,869	11.7
lorida	A	129,945	1,466,625	11.
Georgia	000	108,631	2,902,443	17.4
daho	211	76,784	445,837	5.8
Ilinois	1 307	861,987	7,607,684	8.1
ndiana		304,178	3,225,600	10.4
owa	740	331,720	2,467,900	7
Cansas	544	225,624	1,879,946	8.
Centucky	2.5.5.0 P. 1.5. P. 4.4.4	244,269	2,623,668	10.4
ouisiana	0.70	128,404	2,094,496	16.
faine		127,244	797,423	6.
Maryland	202	121,444	1,629,321	13.
fassachusetts		497,156	4,253,646	8.
lichigan	640	486,390	4,842,280	9.
	220	231,386	2,566,445	11.
	240	109,178	2,007,979	18.
lississippi		468,224	3,620,961	7.
fissouri		69,926	536,332	7.
fontana	425	168,810	1,378,900	8.
		23,324	90,891	3.
vevada		73,475	465,293	
New Hampshire		479,530	4,028,027	6.
New Jersey	44	35,986	427,216	8.
ew Mexico	1 0 2 2			11.
lew York		1,576,980 143,504	12,619,503 3,170,287	7. 22.
North Carolina		81,910		
North Dakota	1.145	644,215	682,448 6,689,837	8.
Ohio	214	172,140		10. 13.
)klahoma		96,906	2,391,777	13.
Pregon Pennsylvania		823,581	952,691	
ennsylvania		72,644	9,640,802 681,232	11.
thode Island				9.
outh Carolina	5 A A	58,323	1,732,567	29.
outh Dakota	A107	91,347	690,755 2,608,759	7.
ennessee		118,821		21. 12.
		471,252 102,636	5,821,272	
Jtah		54,645	502,582	4.
ermont		136,352	359,611 2,419,471	6. 17
Virginia				17.
Vashington		170,948	1,561,967	2.
West Virginia		327,397	1,728,510	5.
Wisconsin		318,087	2,980,282	9.
Wyoming		34,009	224,597	6.
TOTALS		The second se	Concernant Sectors and	

### **Warner Bros Studios**

In 1904, the four founding Warner brothers started the Duquesne Amusement & Supply Company in Pittsburgh to distribute films. Around 1914 they began producing films and in 1918 they opened the first Warner Brothers Studio in Hollywood.



Warner Bros. was a pioneer of film with synchronised sound having bought the Vitagraph Company in 1924. In 1926 they made *Don Juan*, accompanied by a number of Vitaphone shorts. To celebrate this event, they acquired the large Piccadilly Theatre in Manhattan, New York City, and renamed it Warners' Theatre. The theatre was air conditioned by the Wittenmeier Machine Company who advertised their "Vitolysed Air" system. Photographs of opening night show mock icicles under the entrance canopy with the slogan *Refrigerated Washed Air*.

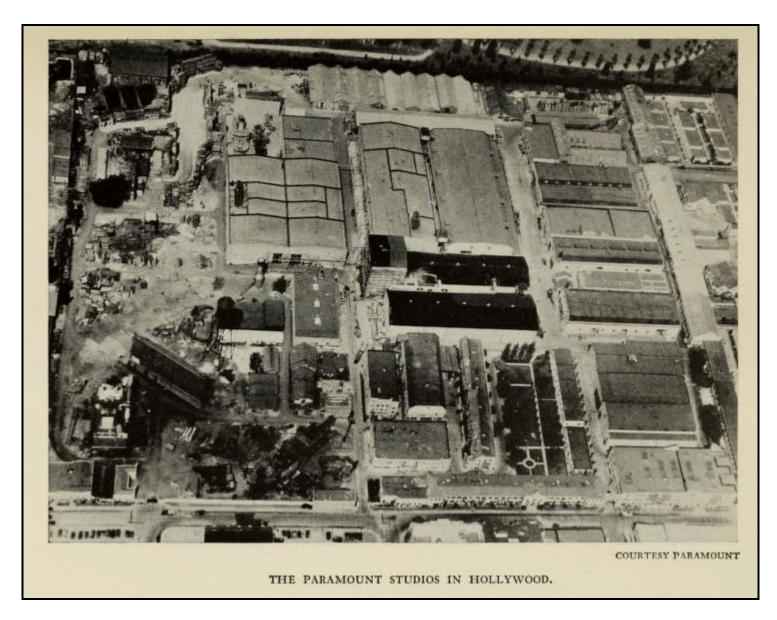


Warners' Theatre, New York

The success of their film *The Jazz Singer* in 1927 (the first major "Talkie") enabled Warners to become a top studio and to acquire the Stanley Corporation, a major theatre chain. In 1929, they bought the St Louis-based theatre chain Skouras Brothers Enterprises followed, in 1930, by the acquisition of a number of movie theatres in Atlantic City.

Examples of Warner theatres air conditioned by 1927 include the following: By Carrier Engineering Corporation: the Boyd and Mastbaum, both in Philadelphia By Brunswick-Kroeschell: Shore, Chicago By York Ice Machinery: Stanley theatres in Baltimore, Philadelphia and Pittsburgh

### **Paramount Studios**



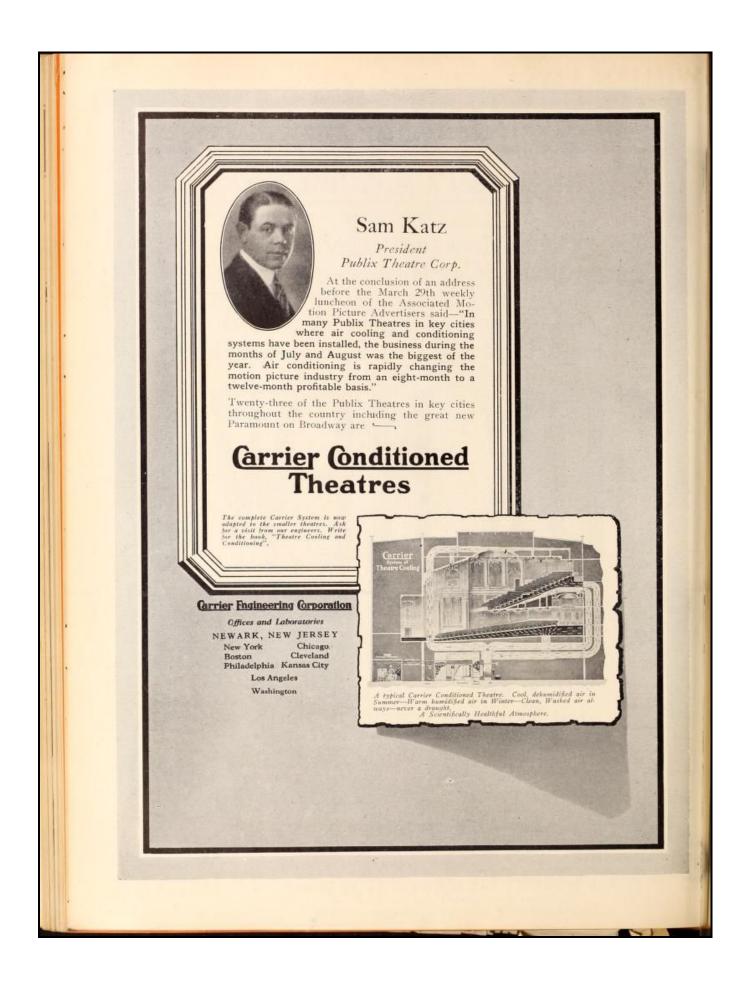
Paramount Pictures Corporation was established in Hollywood in 1912, was acquired by Adolph Zukor in 1917 and in 1926 acquired the successful (largely air conditioned) Balaban & Katz chain of Chicago that had developed the "Wonder Theatre" concept. The Paramount-Publix theatre chain in New York City then embarked on a project to expand wonder theatres and started building in New York in 1927. However, Publix then brokered a non-competition deal with their rival Loew's (MGM) who took over the New York area projects leaving the Chicago area to Publix.

By 1930, Paramount-Publix had over 1000 movie theatres nationwide and continued to add to their chain.



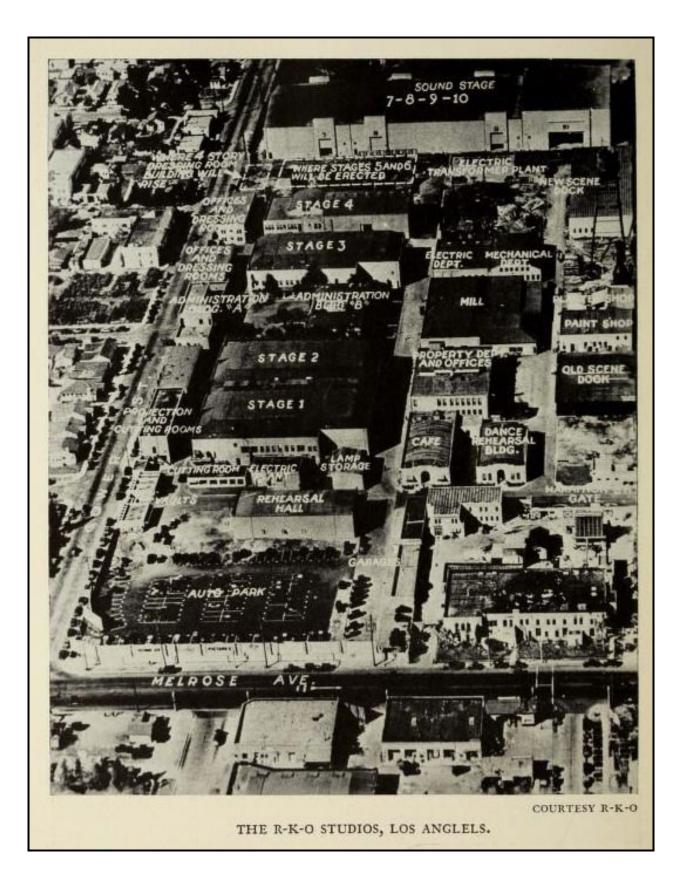
Rivoli Theatre, New York (notice the sign *Cooled by Refrigeration*)

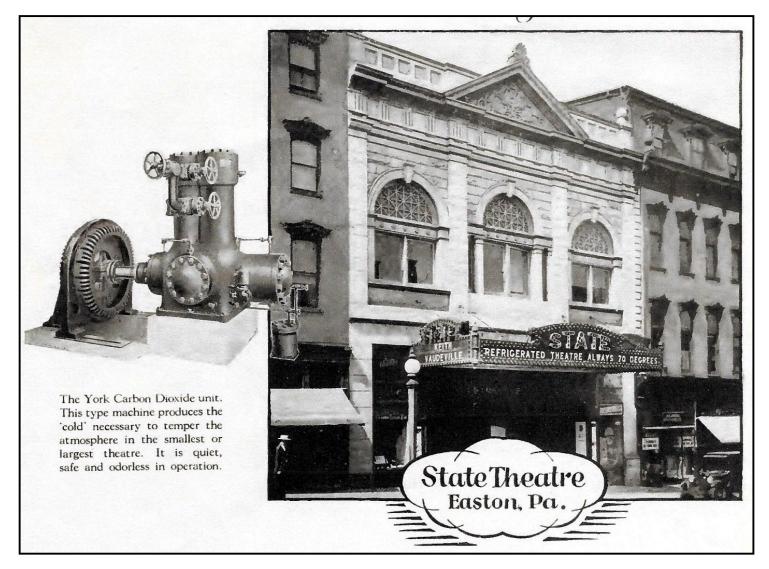
Examples of Paramount and Paramount-Publix theatres air conditioned by 1927 include: By Carrier Engineering Corporation: Casablanca, Charlotte; Paramount, Brooklyn; the Paramount, and Rivoli in New York; Tampa in Tampa; Texas, San Antonio; Uptown, Philadelphia; Carolina, Greensboro. By Brunswick-Kroeschell: Alabama, Birmingham; Olympia, New Haven



## **RKO Studios**

The business was formed after the Keith-Albee-Orpheum theatre chain and Joseph P Kennedy's Film Booking Offices of America (FBO) were brought together under the control of the Radio Corporation of America (RCA) in 1928.





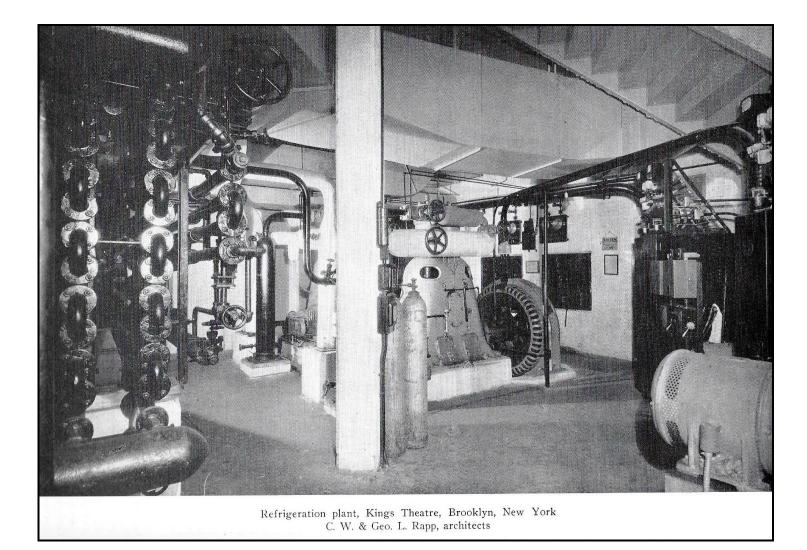
State Theatre, Easton (notice the sign *Refrigerated Theatre, Always 70 Degrees*)

Examples of RKO theatres air conditioned by 1927 include: By York Ice Machinery: 86<sup>th</sup> Street, New York; Keith Palace, Cleveland; State, Easton By Brunswick-Kroeschell: Brooklyn, New York; Orpheum in Los Angeles and Seattle; State Lake, Chicago; Tower, Chicago

# **Metro-Goldwyn-Mayer Studios**

The company was founded in 1904 by Marcus Loew and was the oldest theatre chain operating in the United States. From 1924 (until 1959) it was also the parent company of Metro-Goldwyn-Mayer Studios. The successful enterprise grew to include deluxe vaudeville houses and then lavish movie palaces. Loew's theatres were established in cities from coast-to-coast, but primarily in East Coast and Midwest States.



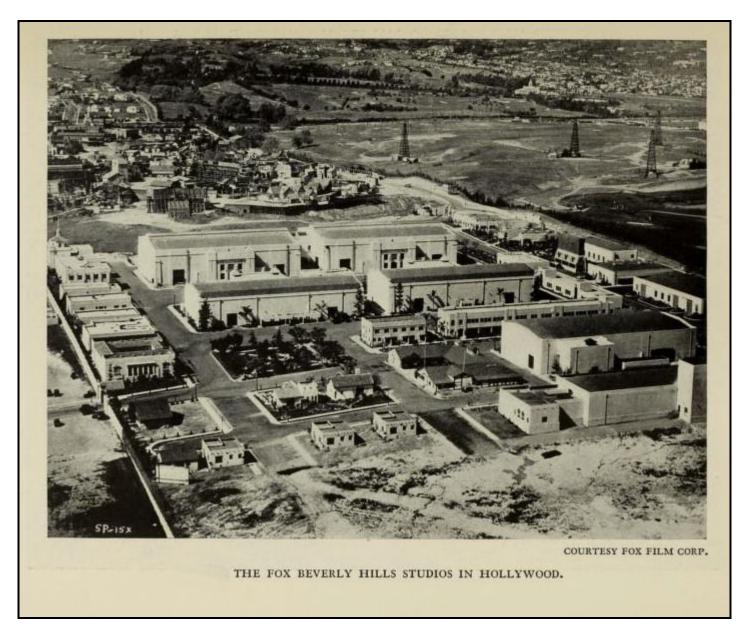


Examples of Loew's theatres air conditioned by 1927 include;

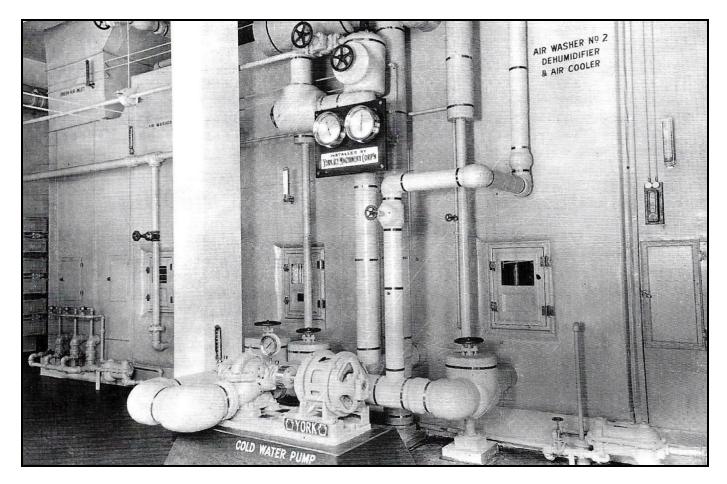
By Carrier Engineering Corporation: Broad, Columbus; Fairmont, New York; Granada, Cleveland By York Ice Machinery: Kings, Brooklyn; Orpheum, Boston; Rochester in Rochester; State, Newark By Brunswick-Kroeschell: Century, Baltimore; Loews, Boston; Loews State, St Louis; Valencia, Baltimore

## **Fox Studios**

Fox Theatres was a large chain of movie theatres in the United States dating from the 1920s, either built by the Fox studio owner William Fox, or subsequently merged in 1929 by Fox with the West Coast Theatres chain. These grand "movie palaces" were built with a wide assortment of architectural styles drawn from Asian, Indian, Persian and Moorish influences.



Some 80 theatres are listed in the Fox Wikipedia entry which includes 8 in Brooklyn, New York and 11 Los Angeles.

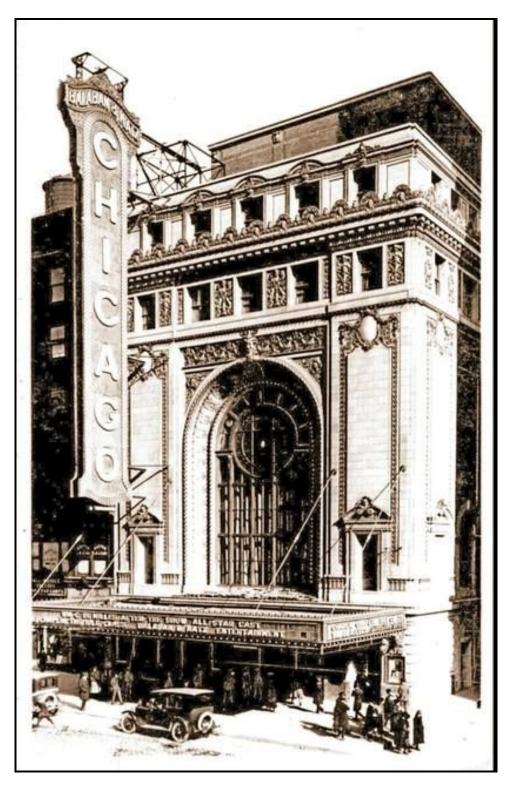


Fox, Spokane, Washington Air conditioning air washer installation by York Ice Machinery 1932

Examples of Fox theatres air conditioned by 1932 include: By York Ice Machinery: Fox, Spokane; Fox Washington DC By Brunswick-Kroeschell: Denver in Denver; Fox, Philadelphia

#### **Balaban and Katz**

The B&K chain in Chicago was not one of the big five. However, by a combination of astute management, impressive theatre architecture and the introduction of air conditioning in 1917, they revolutionised the film and movie theatre industry. The big chains soon followed suit while B&K expanded from six to some one hundred and twenty-five theatres.

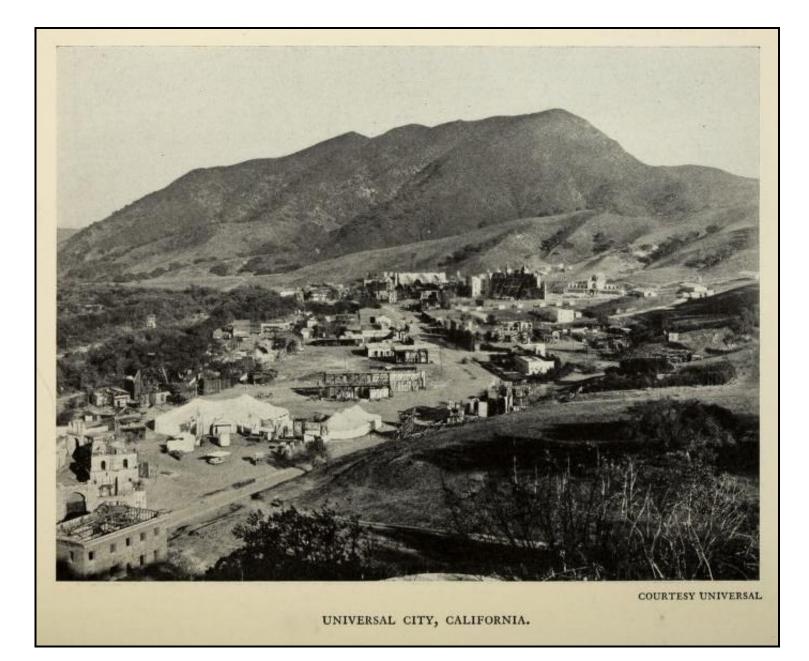


Chicago Theatre, Chicago

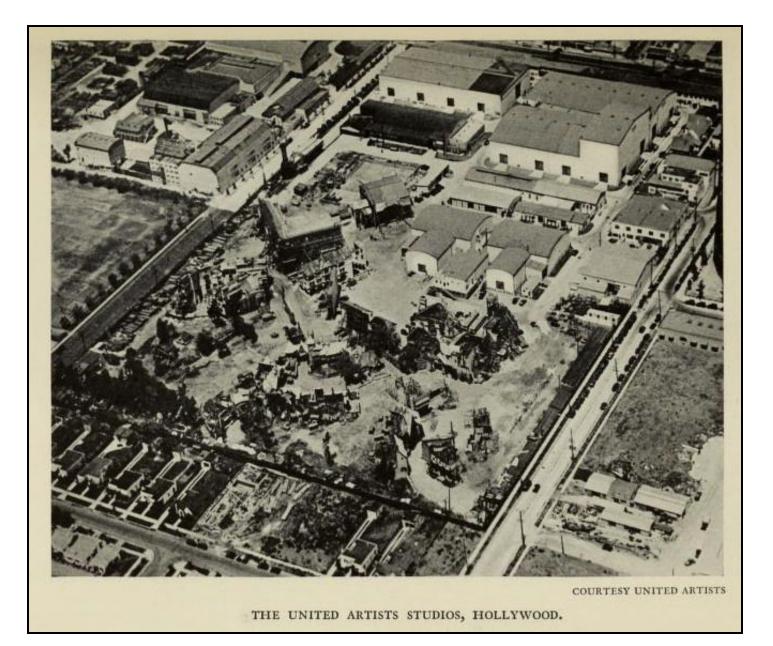


Uptown Theatre, Chicago

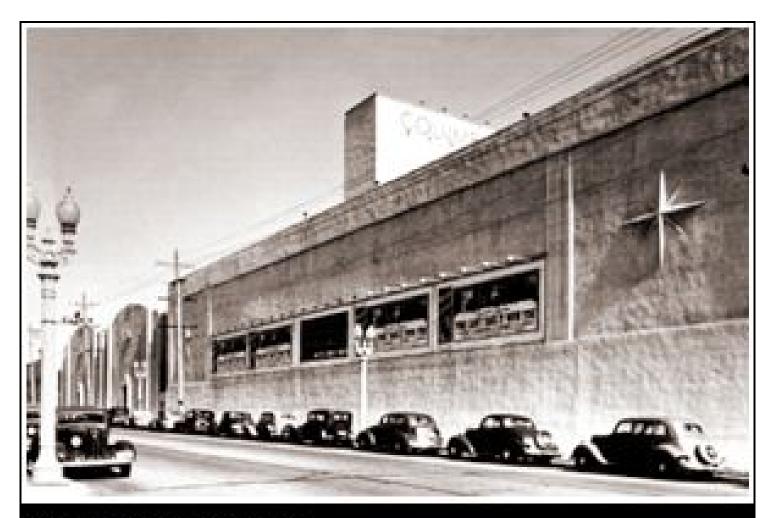
# **Universal City**



### **United Artists Studios**



## **Columbia Studios**



Columbia Pictures Gower Street, Hollywood 1937