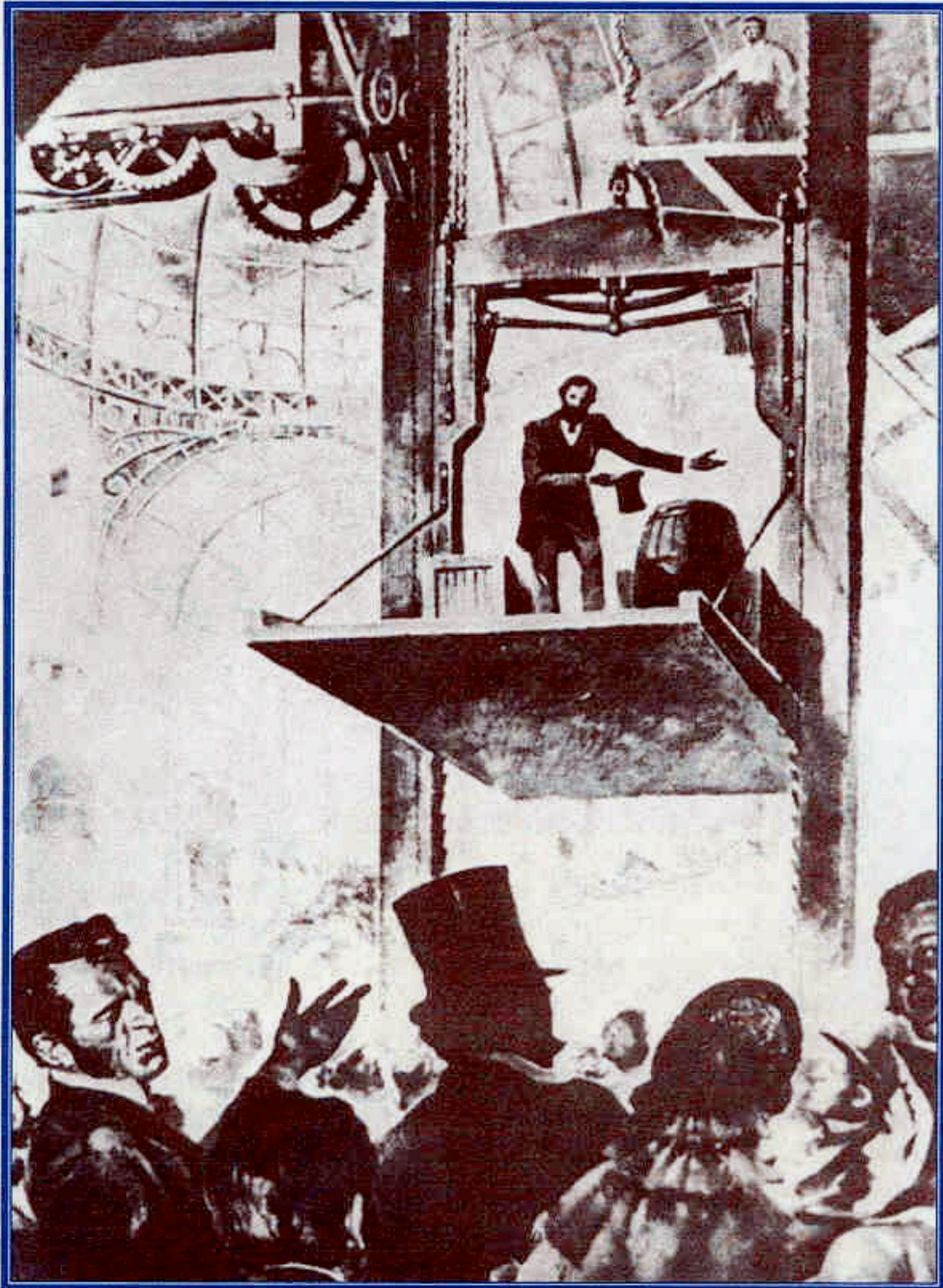
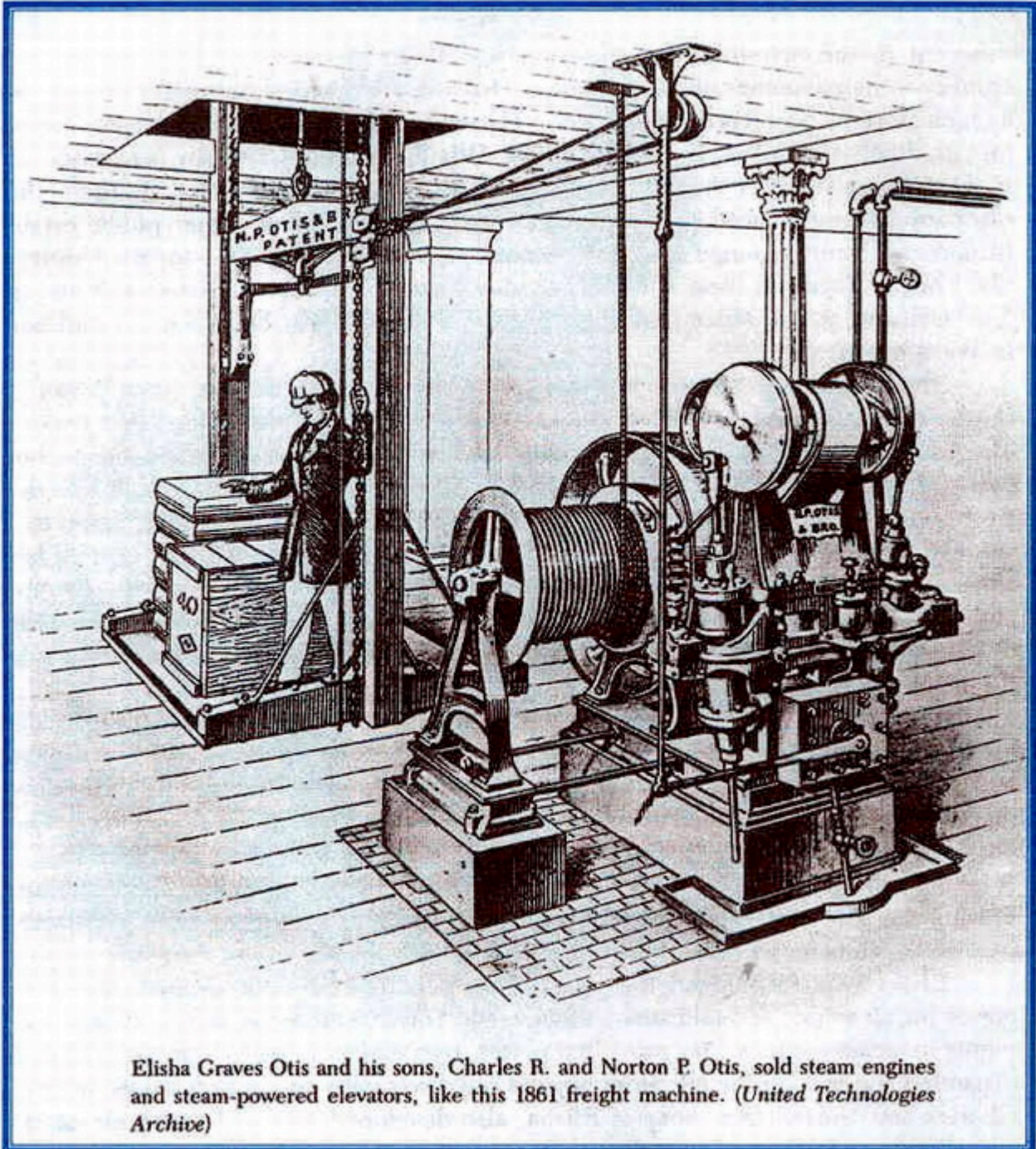


ELEVATORS



Demonstration by Elisha Graves Otis of his safety hoist at the World's Fair Exhibition, New York, 1853 [UA, 330]

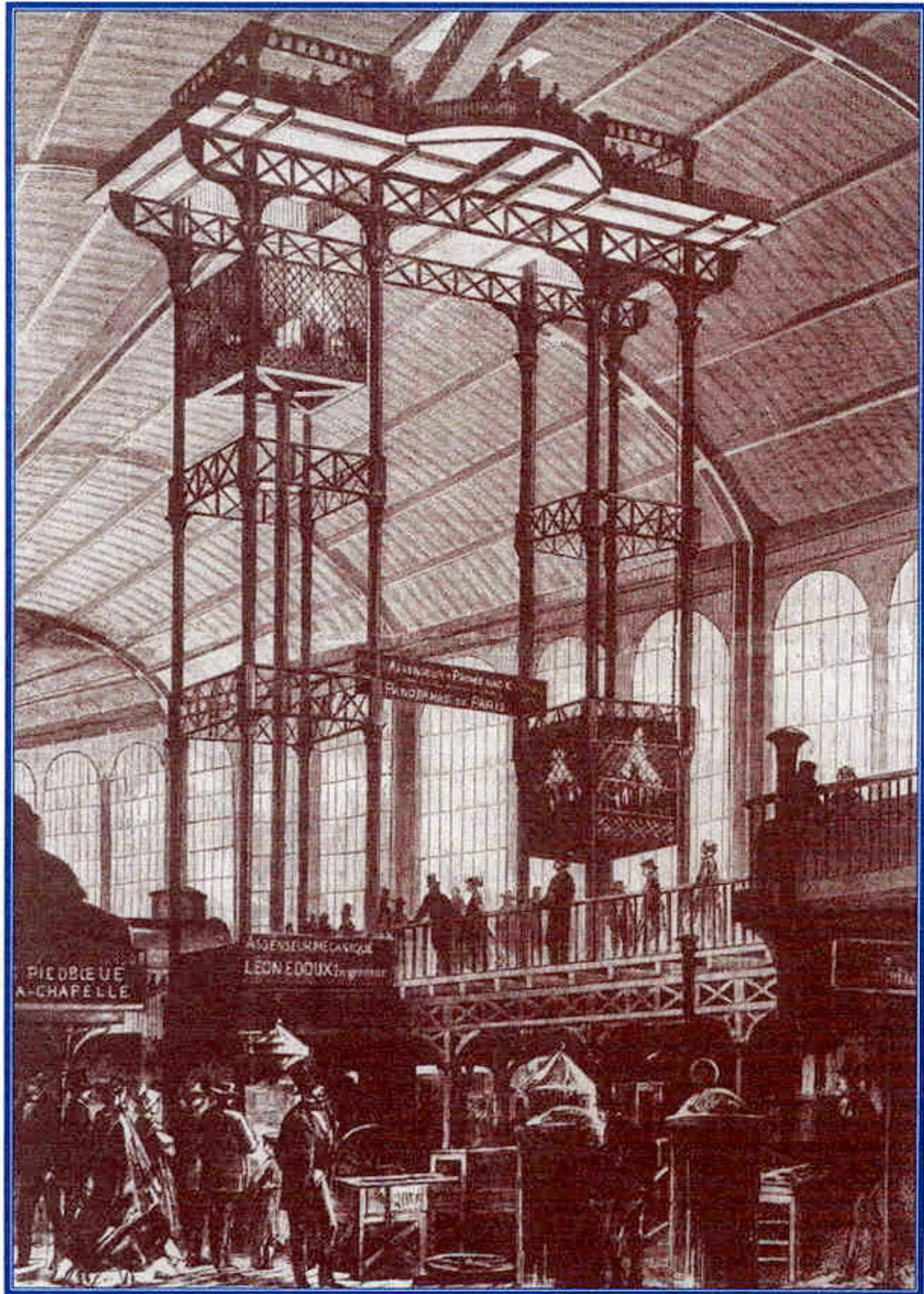
ELEVATORS



Elisha Graves Otis and his sons, Charles R. and Norton P. Otis, sold steam engines and steam-powered elevators, like this 1861 freight machine. (*United Technologies Archive*)

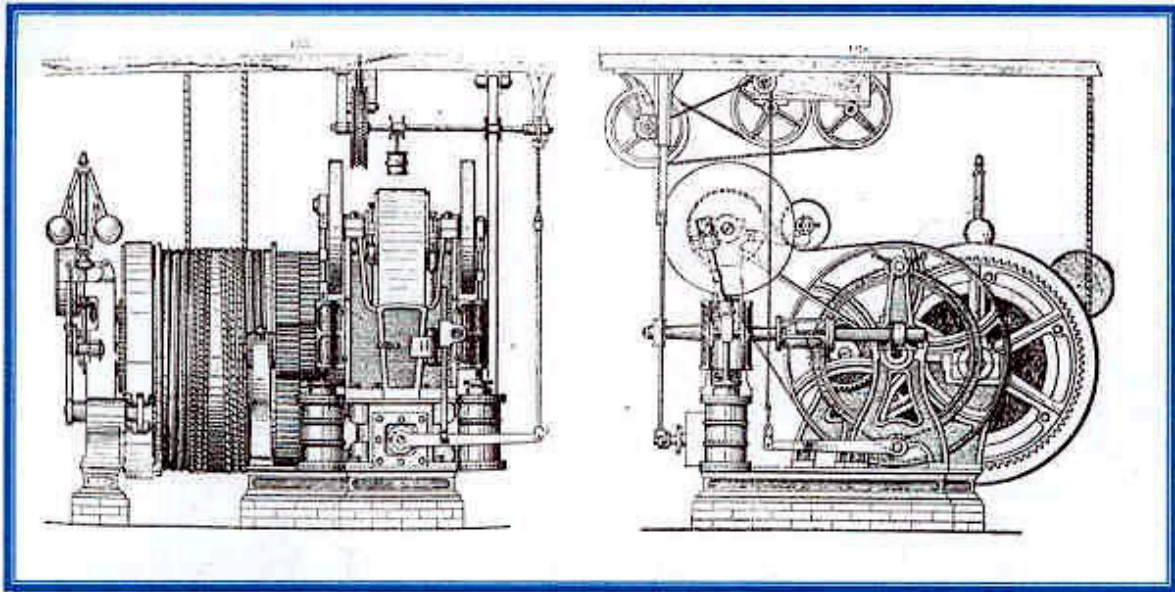
Otis Elevator Company [TSCO, 246]

ELEVATORS

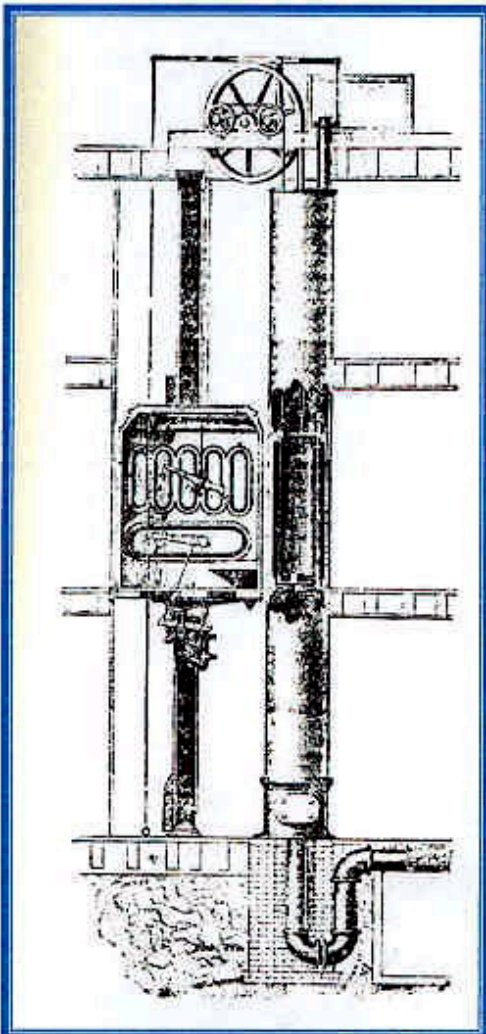


Leon Edoux's hydraulic elevator at the Paris Exposition, 1867 [GE, 47]

ELEVATORS

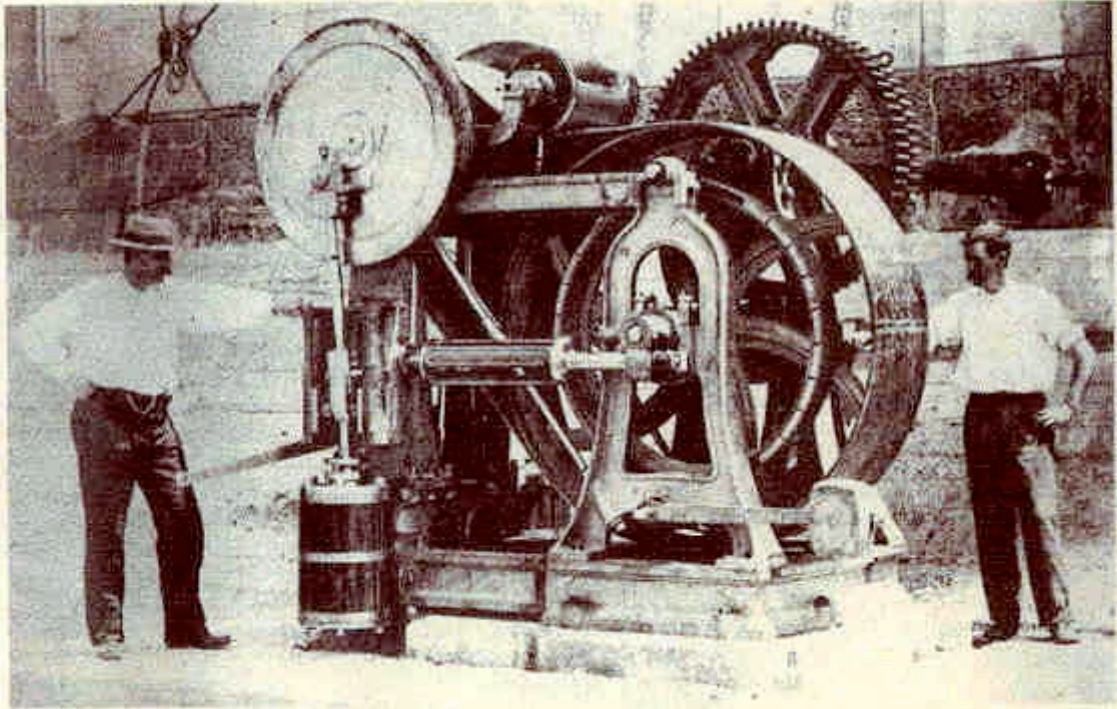


Vertical two-cylinder steam engines for operating elevators, 1880 [UA, 332]



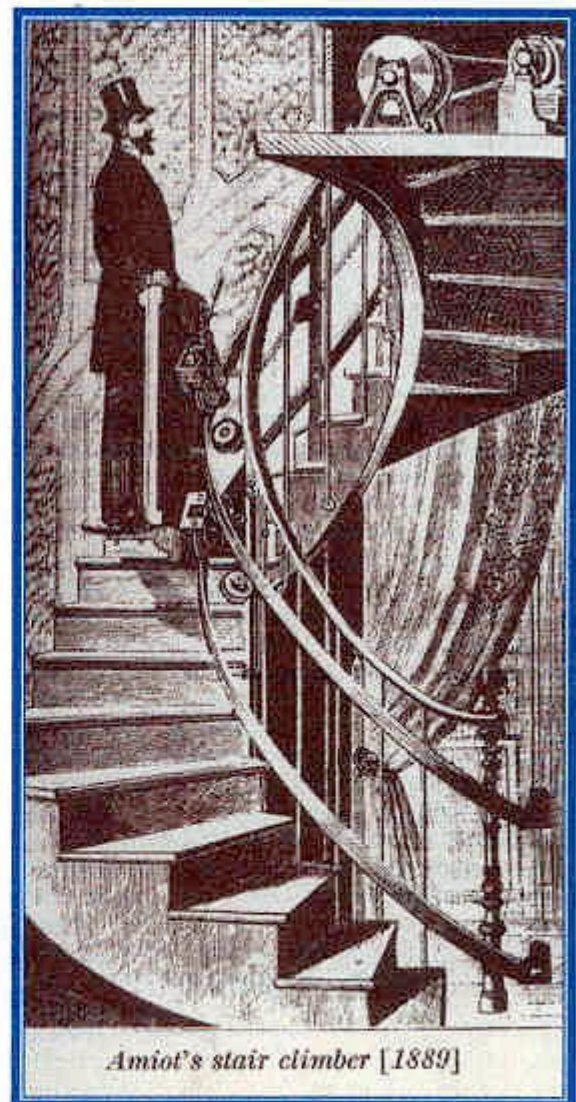
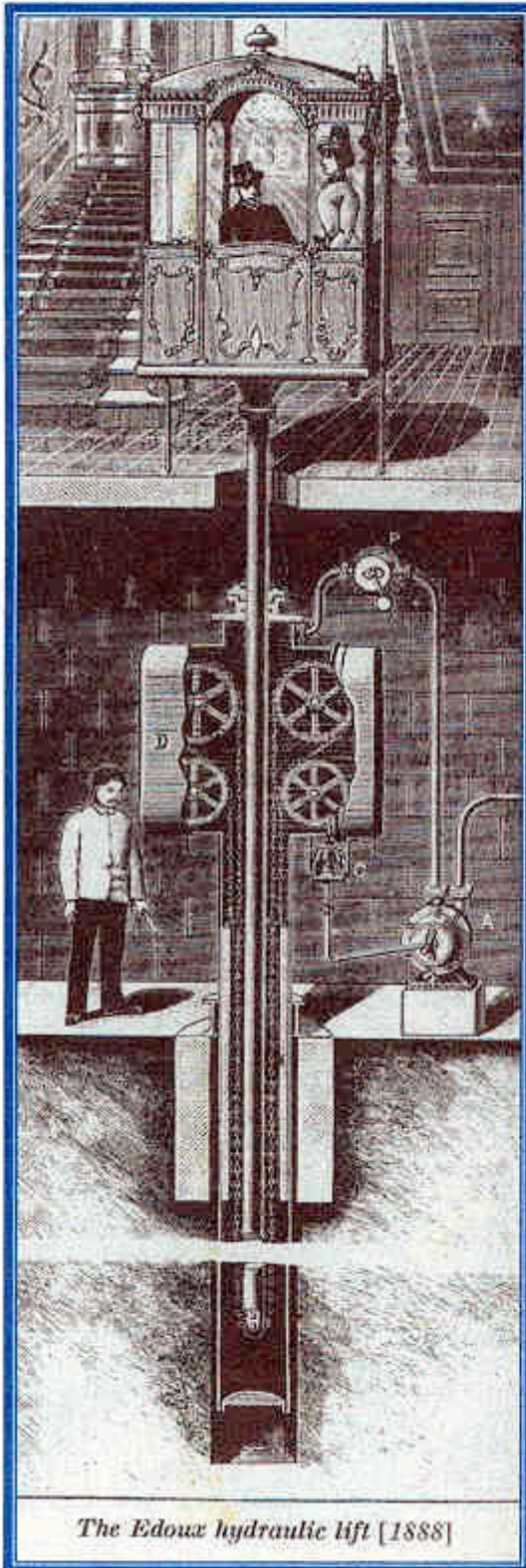
Water balance elevator, 1873 [UA, 333]

ELEVATORS



Washington Monument Elevator Engine, Washington, D.C., 1880

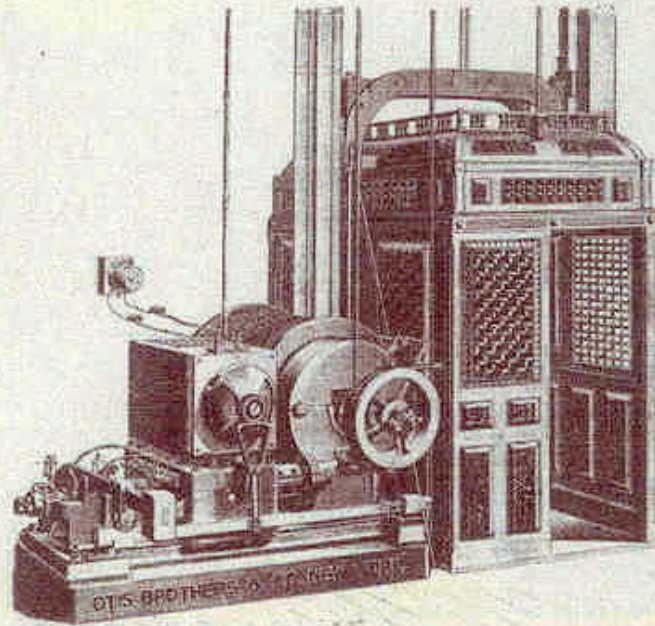
ELEVATORS



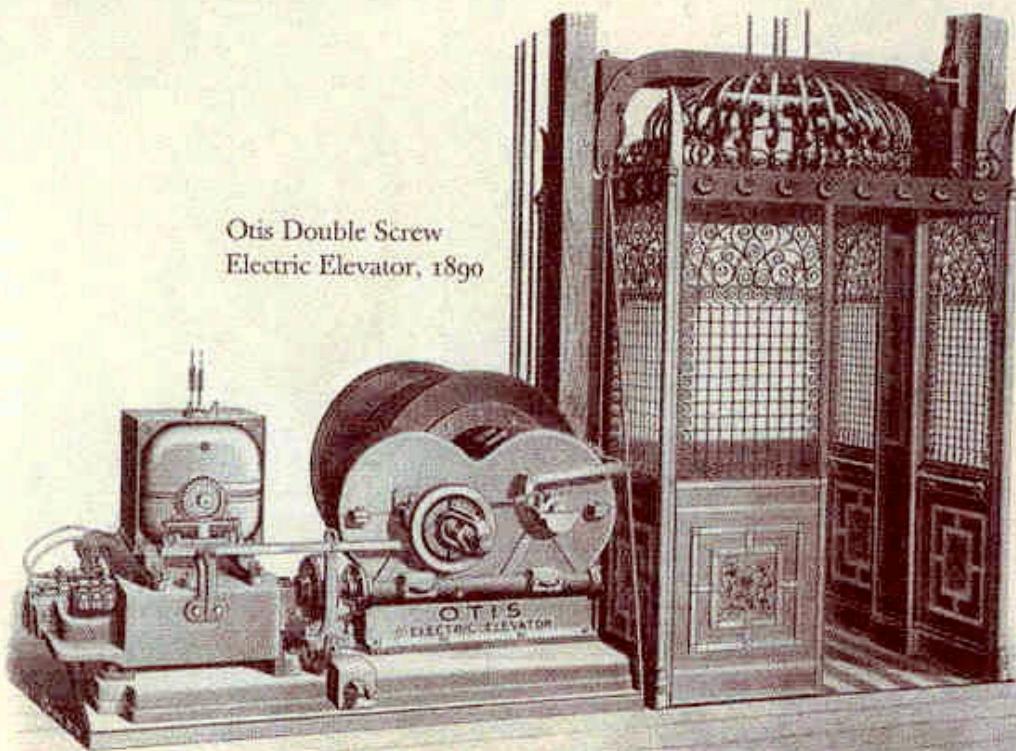
Designs from France [VI, 82-83]

ELEVATORS

Otis direct-connected
electric elevator,
hand-rope operation,
ca. 1890

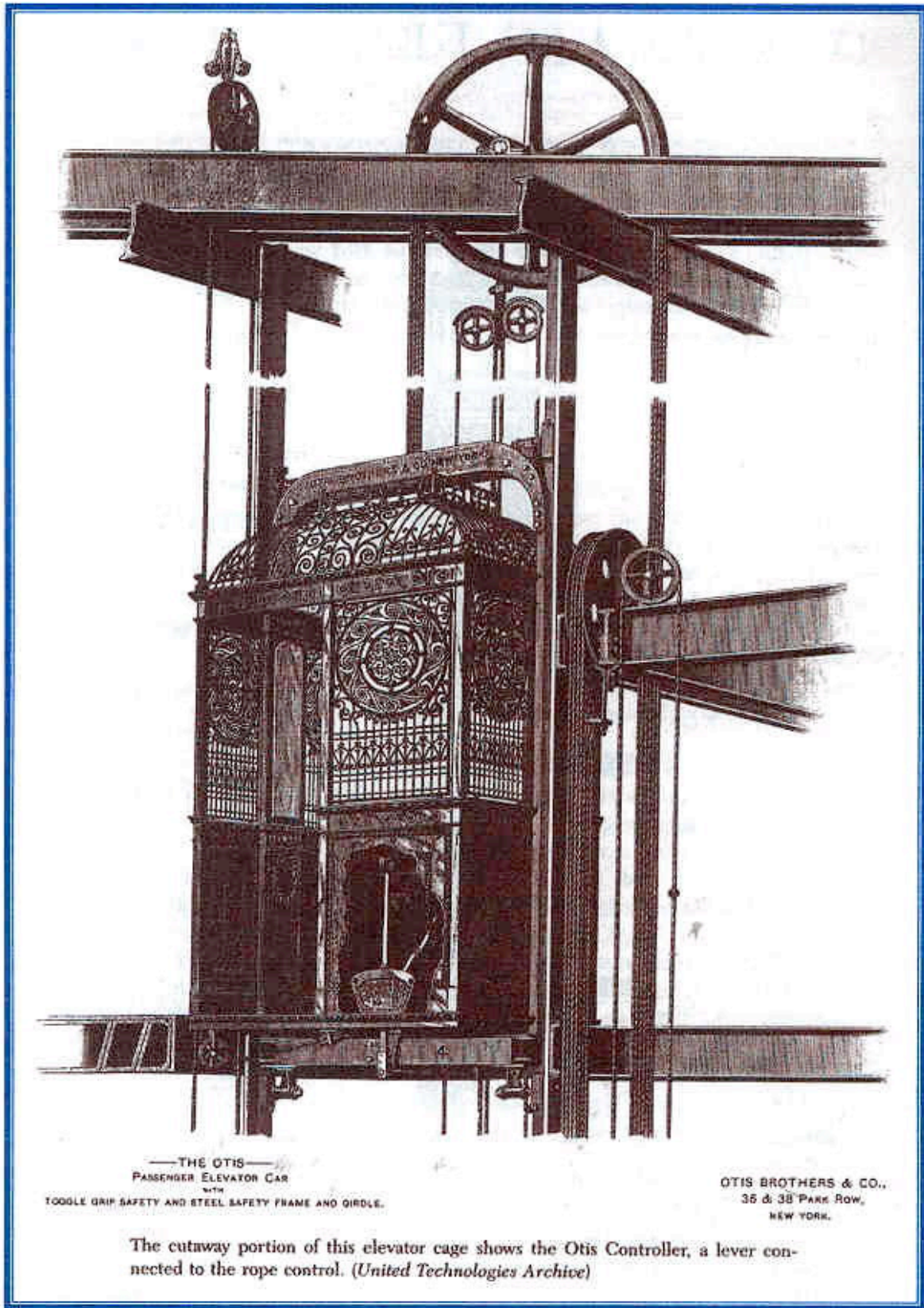


Otis Double Screw
Electric Elevator, 1890



Otis Elevator Company [OT]

ELEVATORS



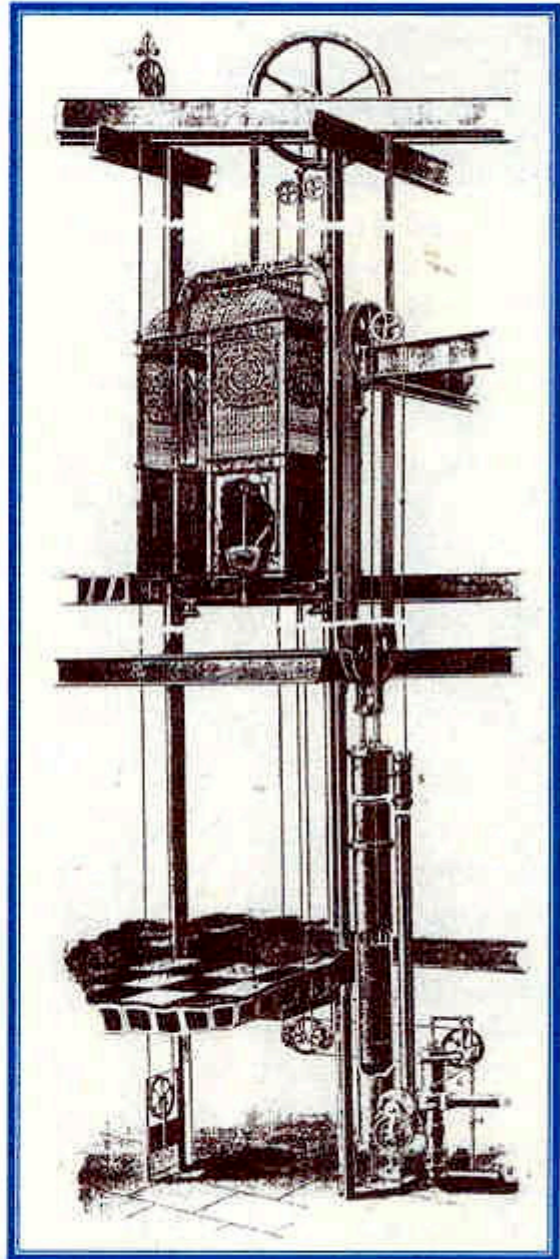
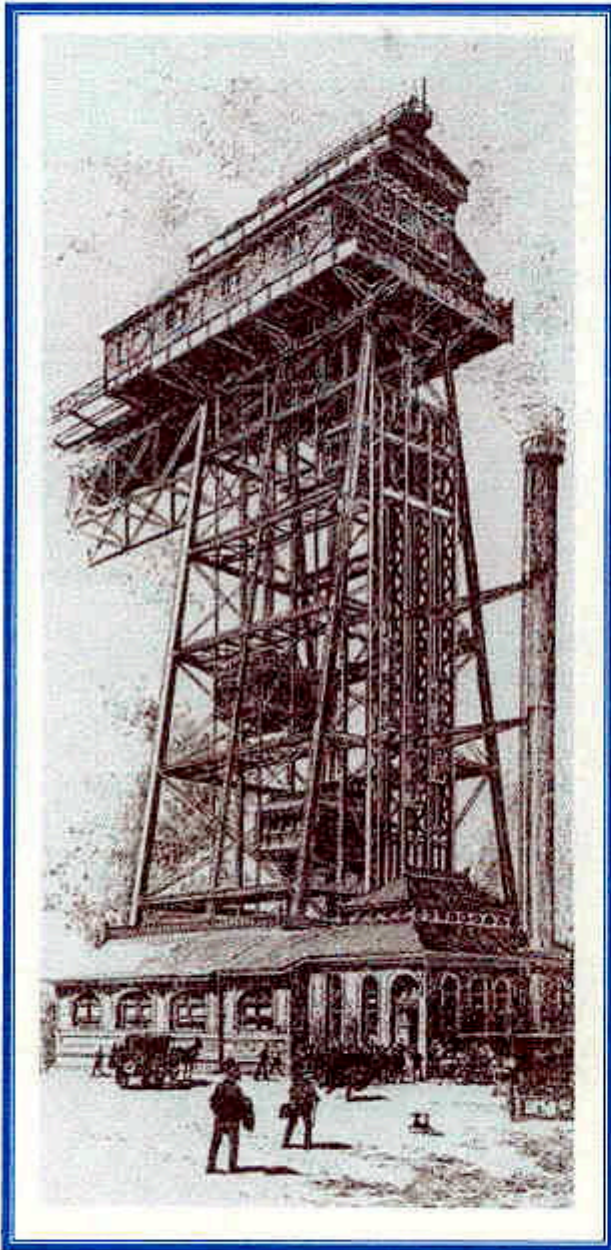
—THE OTIS—
PASSENGER ELEVATOR CAR
WITH
TOGGLE GRIP SAFETY AND STEEL SAFETY FRAME AND GIRDLE.

OTIS BROTHERS & CO.,
35 & 38 PARK ROW,
NEW YORK.

The cutaway portion of this elevator cage shows the Otis Controller, a lever connected to the rope control. (*United Technologies Archive*)

Otis Elevator Company [TSCO, 250]

ELEVATORS

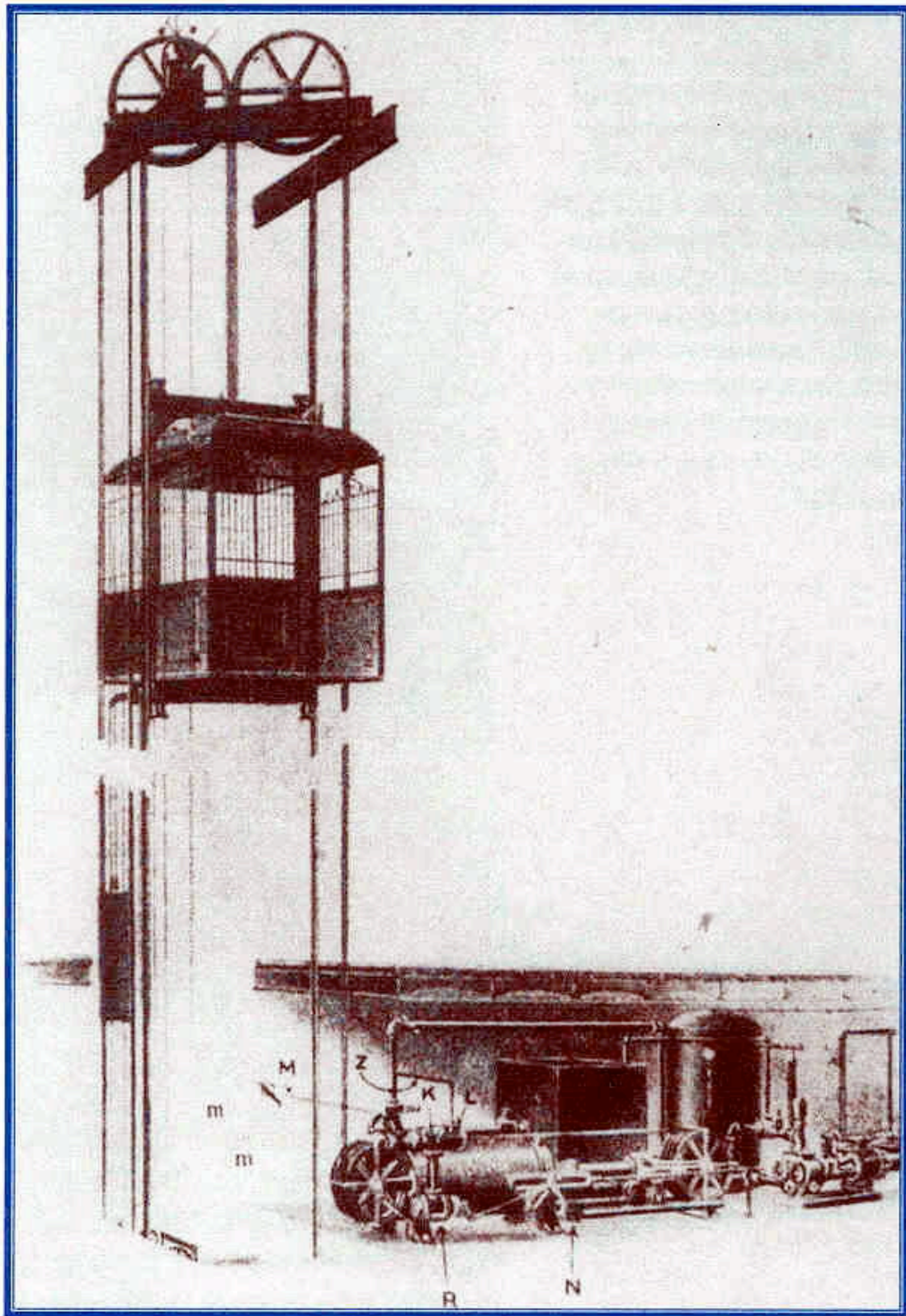


[left] Hydraulic three-car passenger elevator tower, New York 1893 [UA, 333]

[right] Hydraulic vertical-cylinder elevator with safety devices

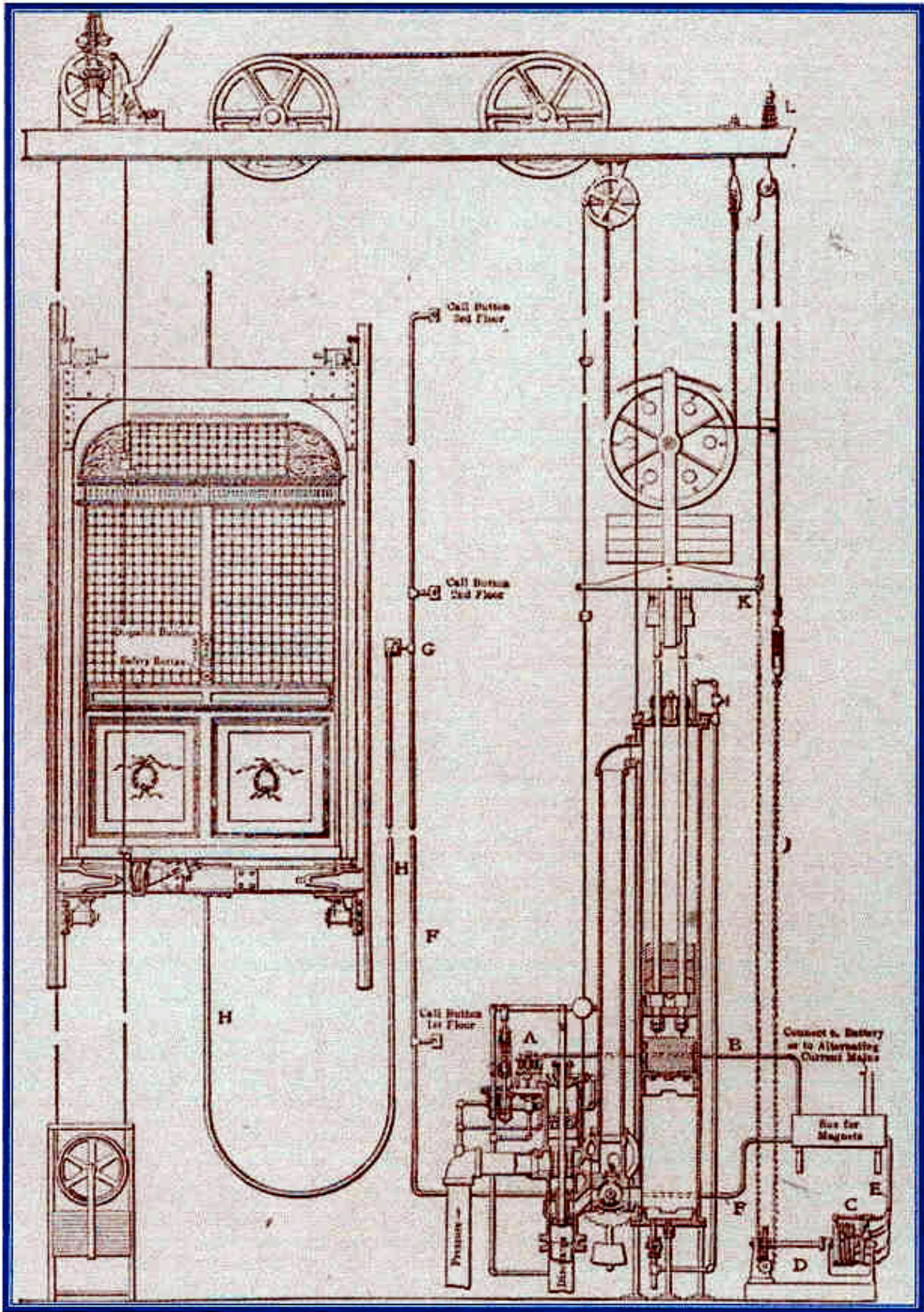
[*Scientific American*, 12 August, 1899]

ELEVATORS



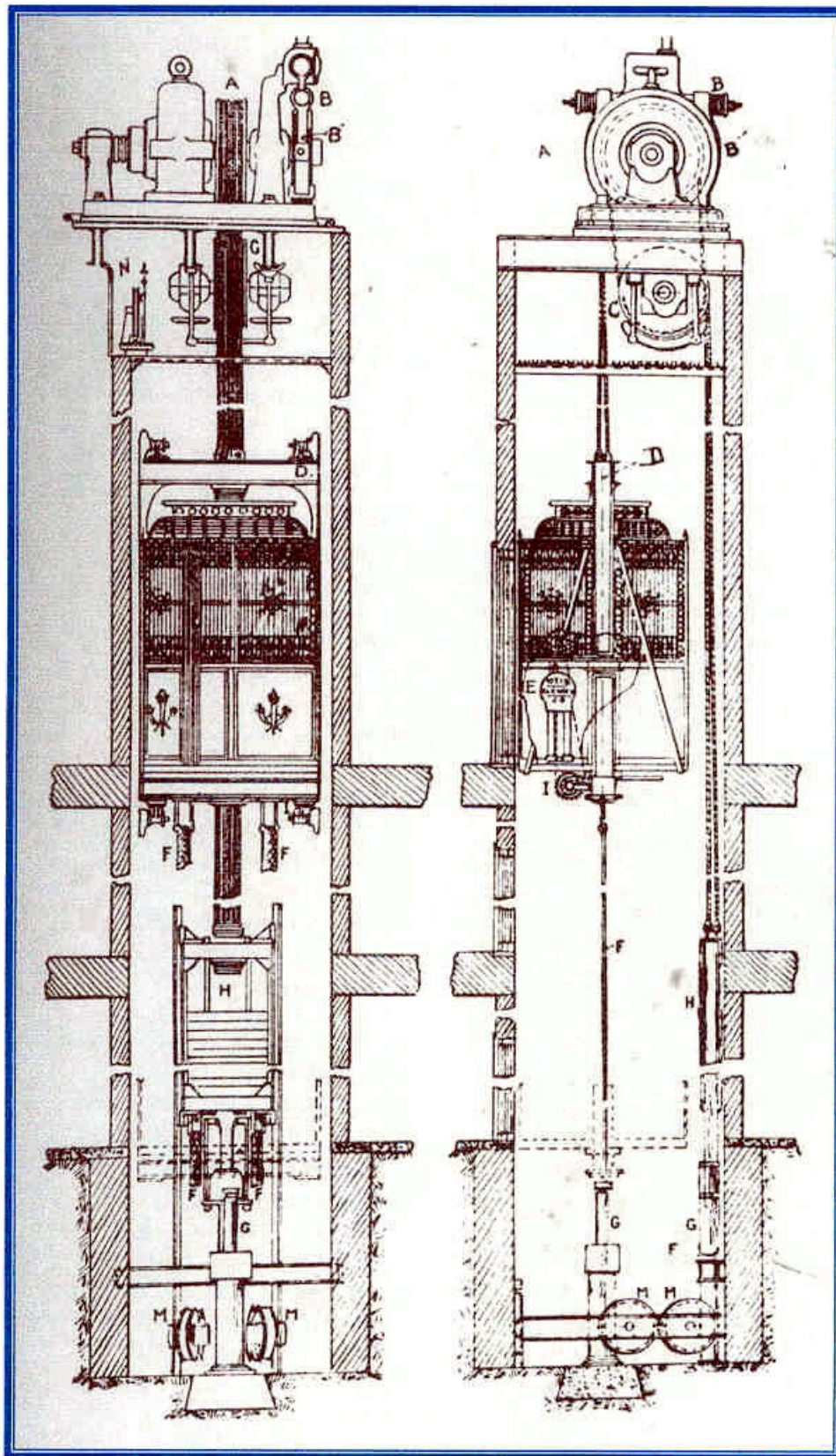
Hydraulic elevator with horizontal cylinder, 1897 [UA, 337]

ELEVATORS



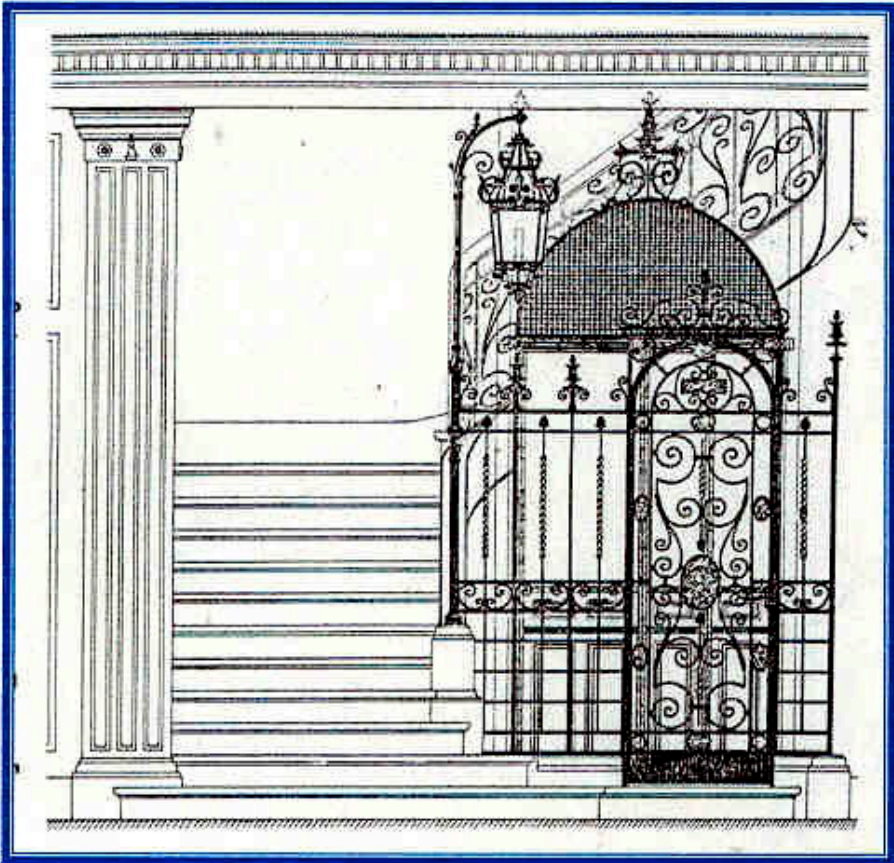
Vertical cylinder hydraulic elevator, 1905 [UA, 339]

ELEVATORS

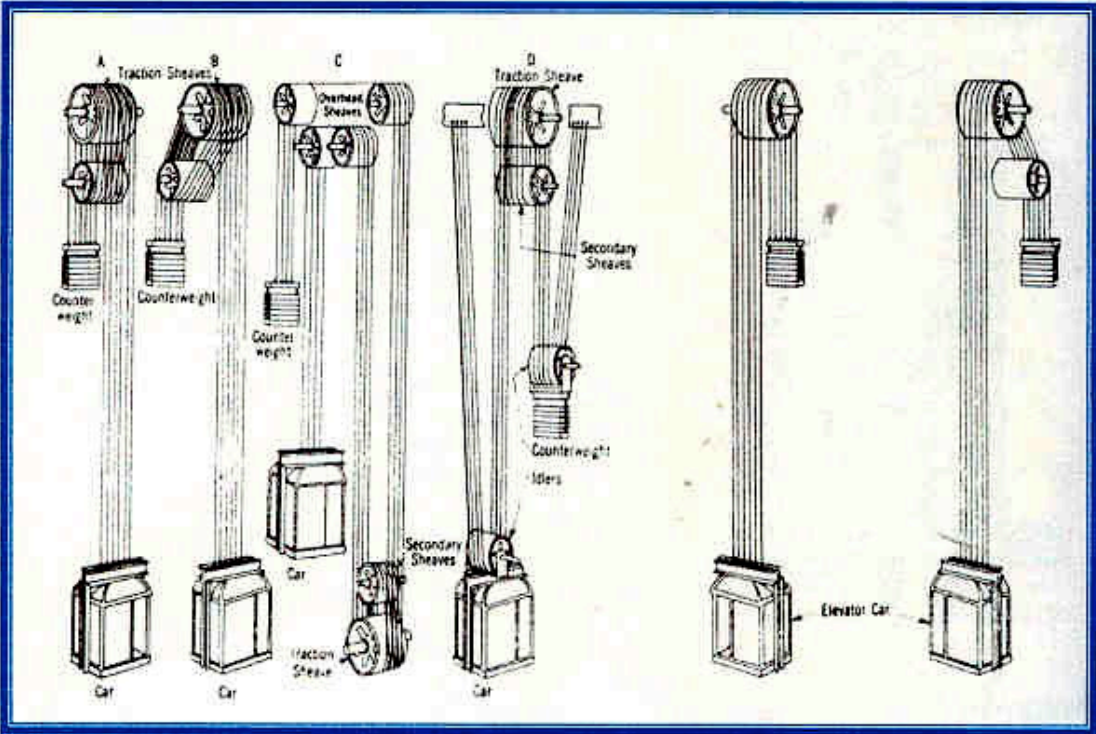


Otis traction elevator, 1909 [UA, 343]

ELEVATORS



Open style elevator cage, France, 1898 [UA, 340]



Various elevator cable driving arrangements [J.American IEE, April 1922]

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