BUFFALO FORGE COMPANY PART-1

Buffalo, New York

Extracts from Catalogues of around 1900

Fans & Systems

Mechanical Induced Draft.

BUFFALO
FORGE
COMPANY
BUFFALO
N.Y.
·U·S·A·

Buffalo Fans for
Mechanical Induced Draft.
Buffalo Forge Company,
Buffalo, N. Y.,
U. S. A.

TYPICAL FEATURES OF MECHANICAL INDUCED DRAFT.

Ensures the highest efficiency of fuel economizers. In connection therewith utilizes waste heat and gases. The required draft is produced. It is constant. Initial cost is far less than a chimney. The operating expense is below the interest on a smokestack outlay. The results are materially in advance of natural draft. Absolute independence of atmospheric conditions and temperature of gases is secured. Affords the highest possible degree of combustion. Burns low grades of fuel. Advances the steaming capacity of boilers to the maximum. Sudden demands upon a power plant promptly met. Flexible, positive and instantaneous in action. Unvarying boiler steam pressure with engine speed automatically controlled. Economy of building space. Gives steady, uniform draft without blowholes through grate bars. Makes feasible a material increase of capacity without enlarging the boiler plant. Saves fuel. Prevents smoke.

BRANCHES :

New York and Chicago.
Offices in principal American
and European cities.

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Mechanical Induced Draft.
Buffalo Forge Company,
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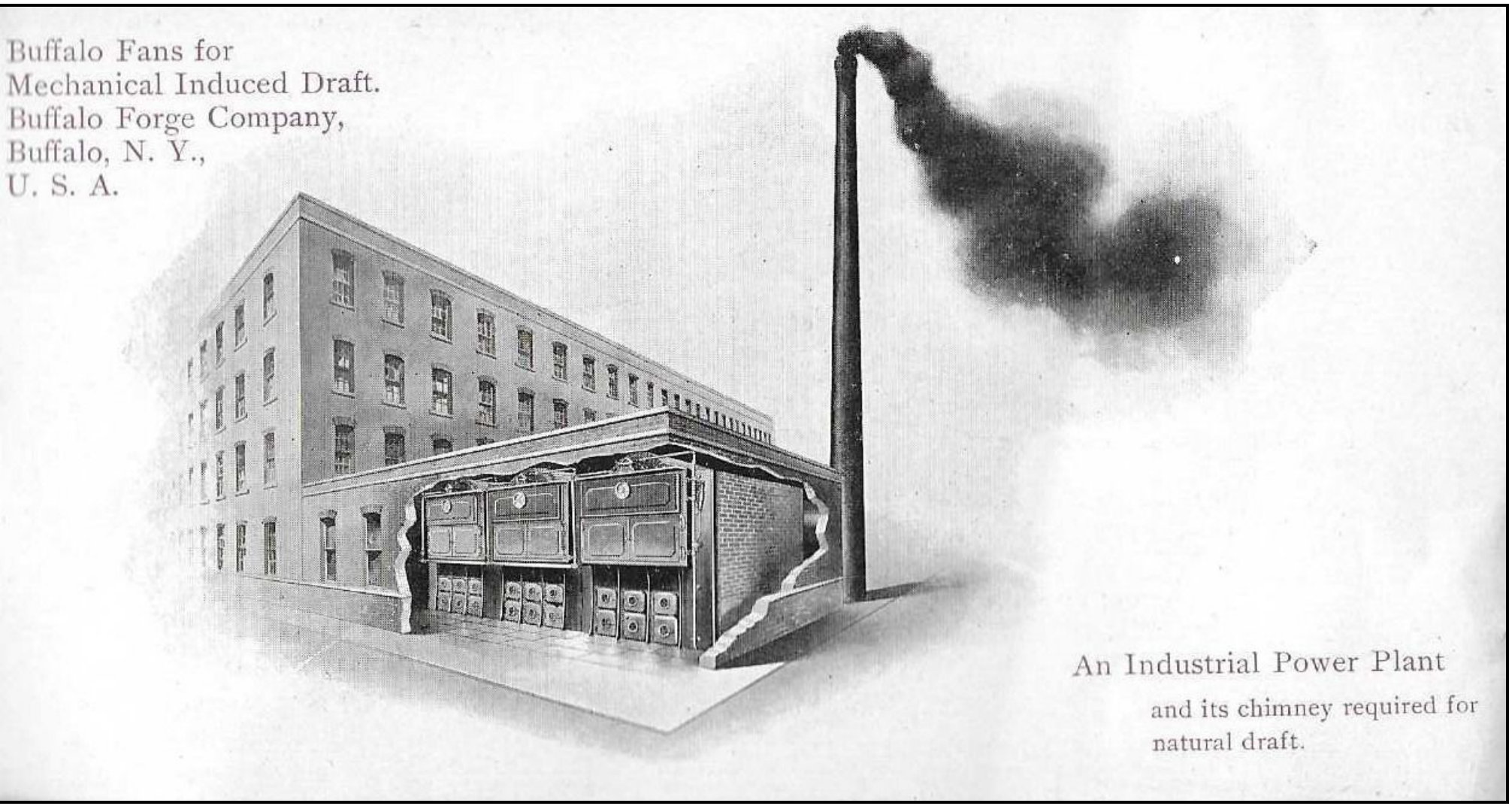
U. S. A.



An Industrial Power Plant

and its chimney required for
natural draft.

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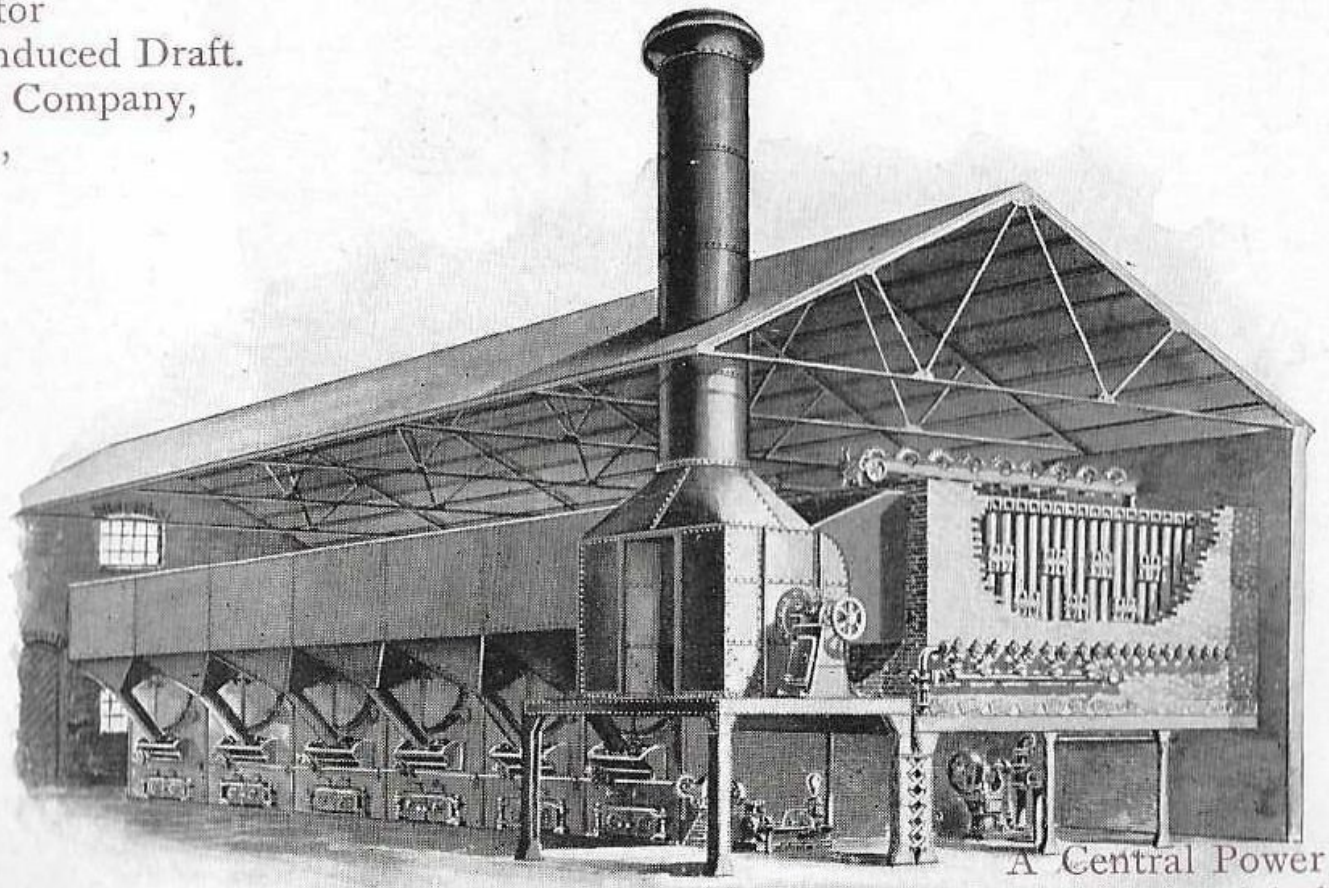

A Central Power Station
with induced draft, economizers, etc. Observe short stack and absence of smoke.

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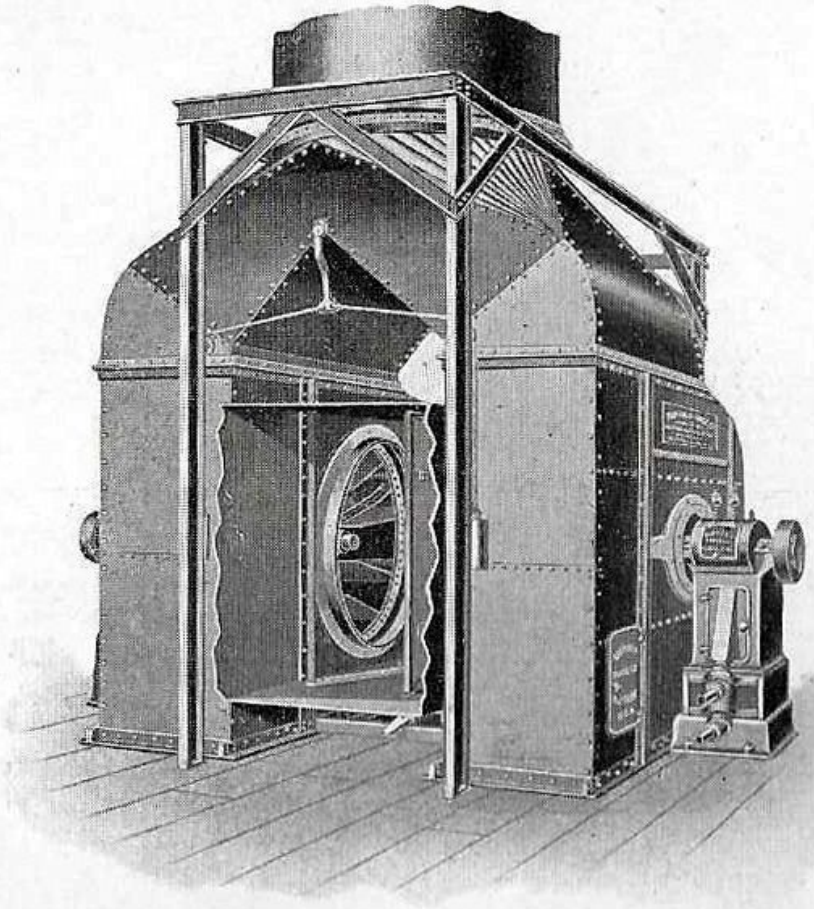

Buffalo Induced
Draft Fans

with double enclosed engines, connections to stack, supporting frame work, fan wheels overhung, water-cooled bearings.

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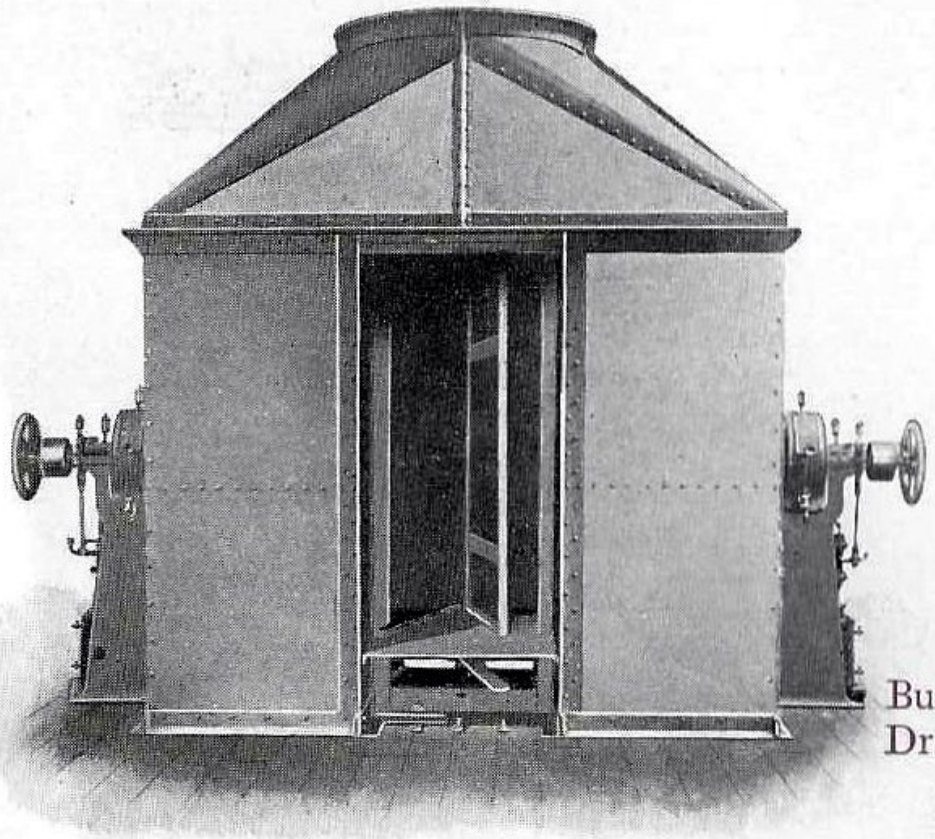

Buffalo Induced
Draft Fans

with single engines, connections to stack, and balanced damper, fan wheels overhung, water-cooled bearings.

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Buffalo Forge Company,
Buffalo, N. Y.,
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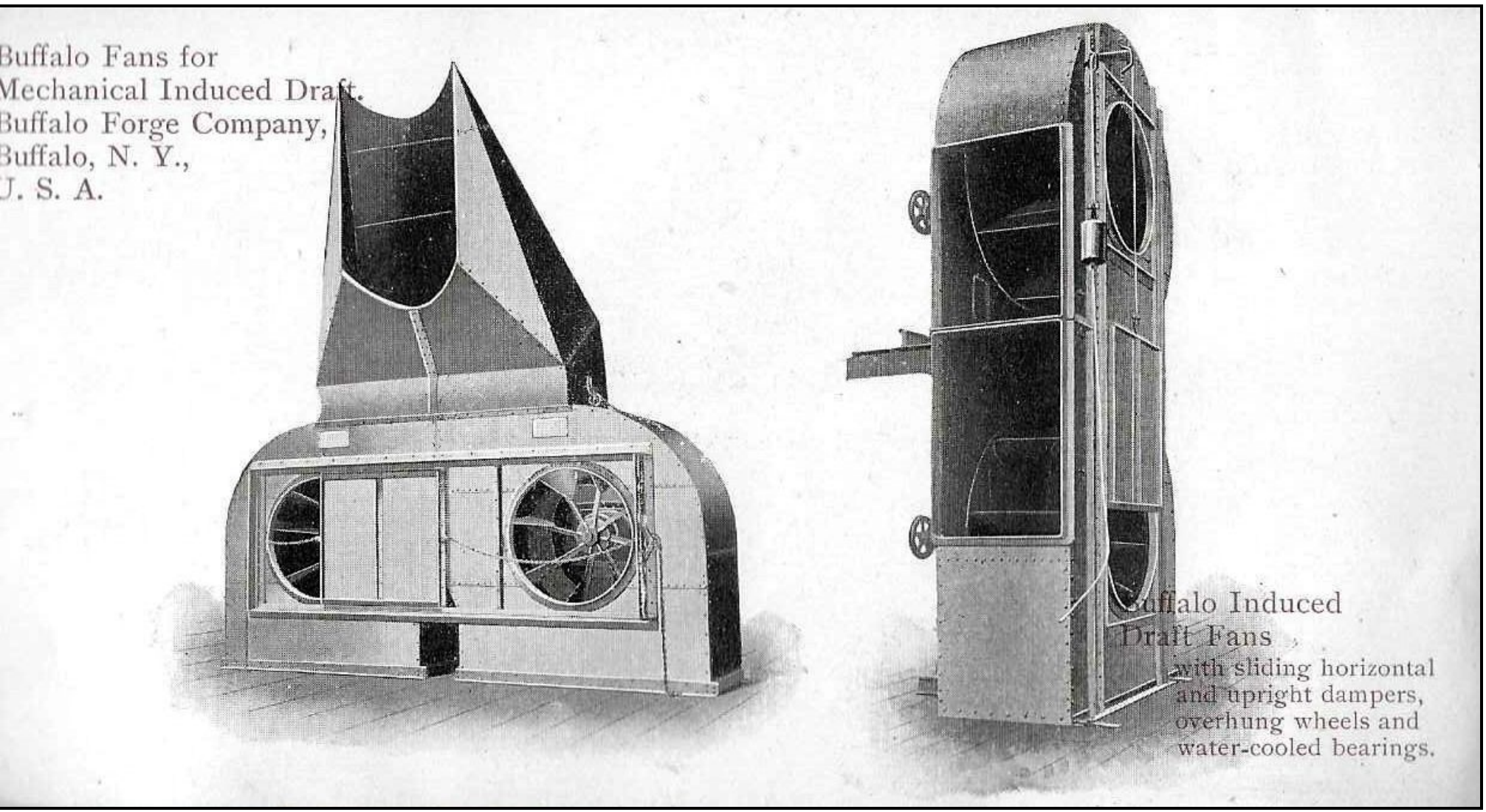

uffalo Induced
Draft Fans
with sliding horizontal
and upright dampers,
overhung wheels and
water-cooled bearings.

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Buffalo, N. Y.,
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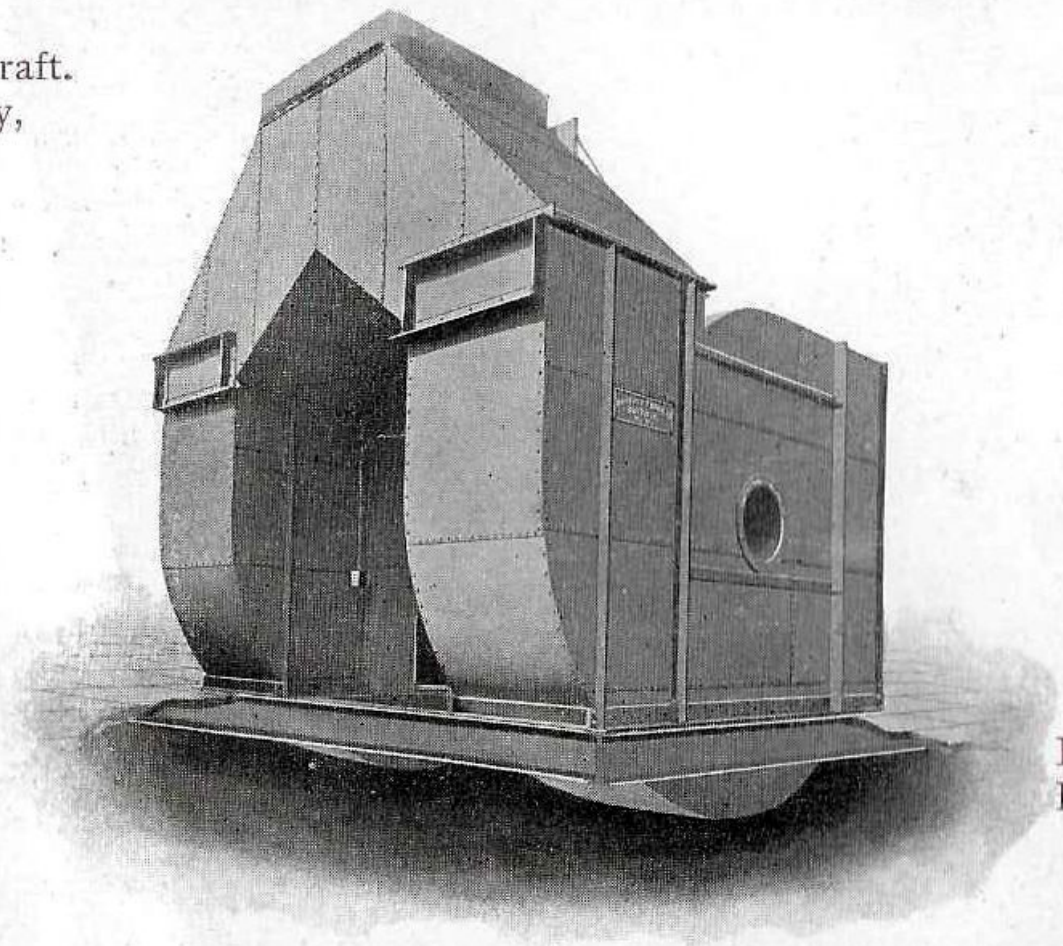

Buffalo Induced
Draft Fans

Full steel-plate housing, ¾ type, arranged for connection to fuel economizers.

Buffalo Fans for
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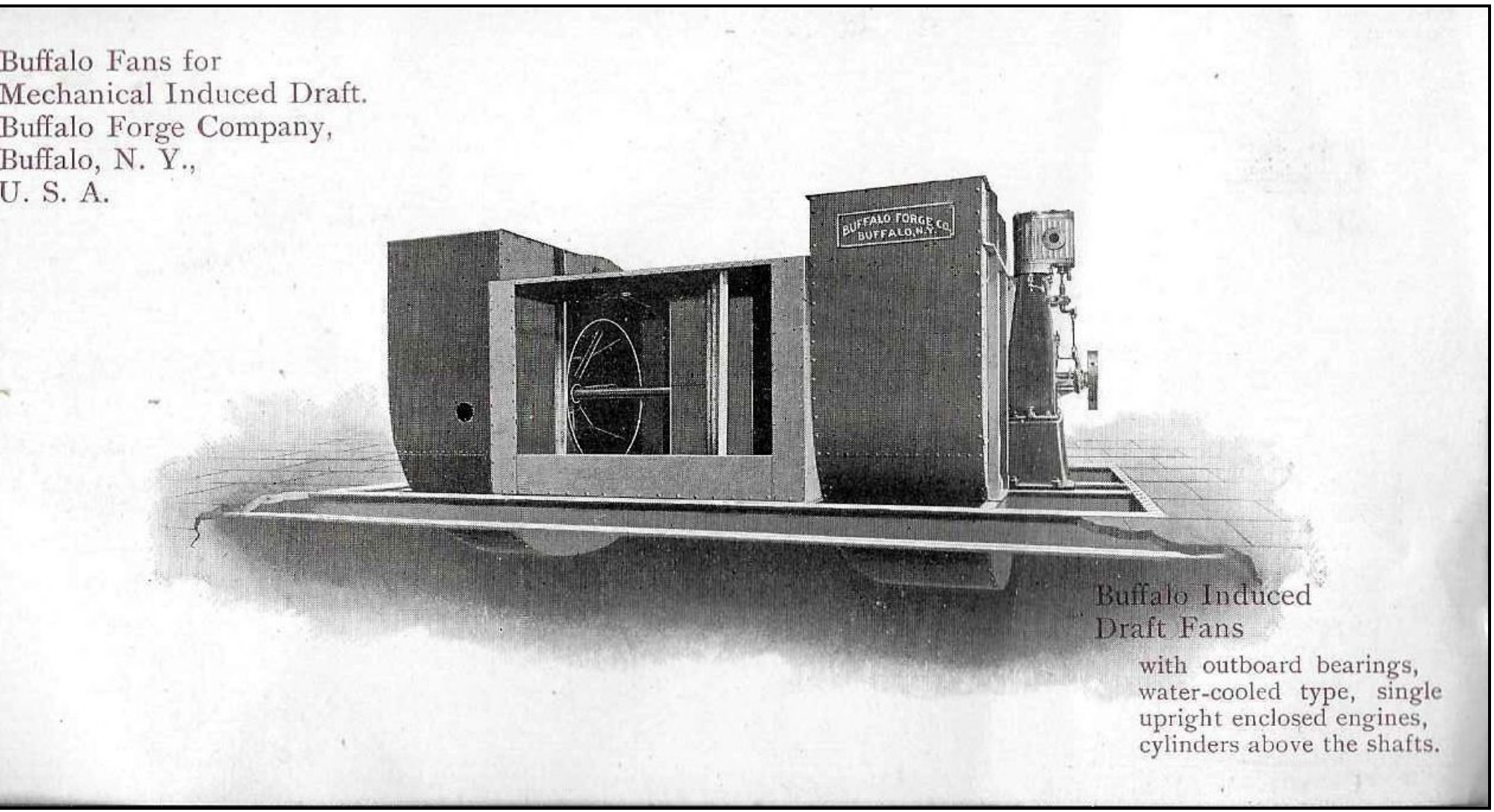

Buffalo Induced
Draft Fans

with outboard bearings, water-cooled type, single upright enclosed engines, cylinders above the shafts.

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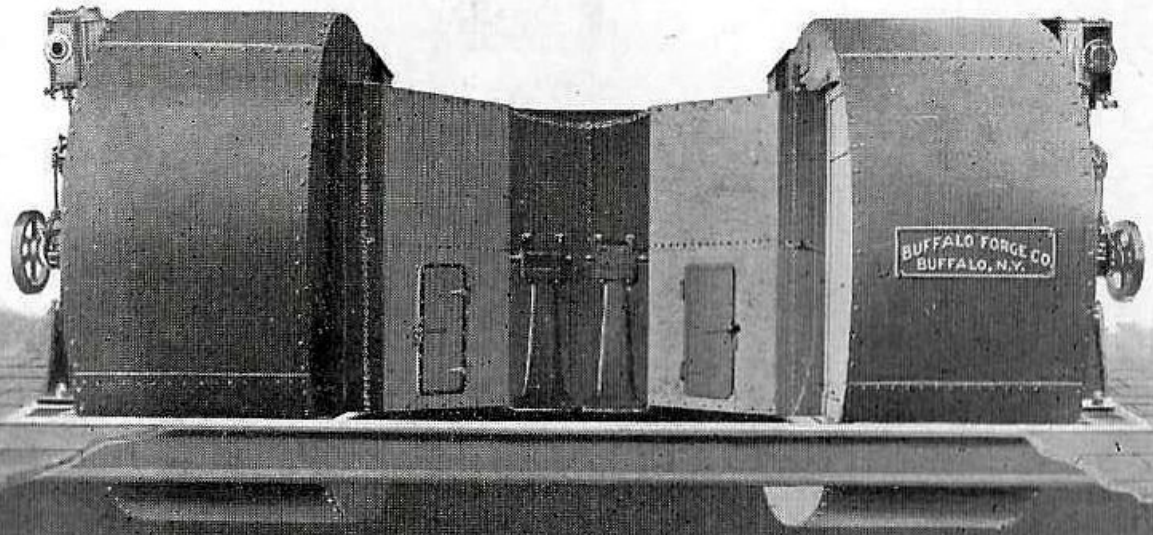
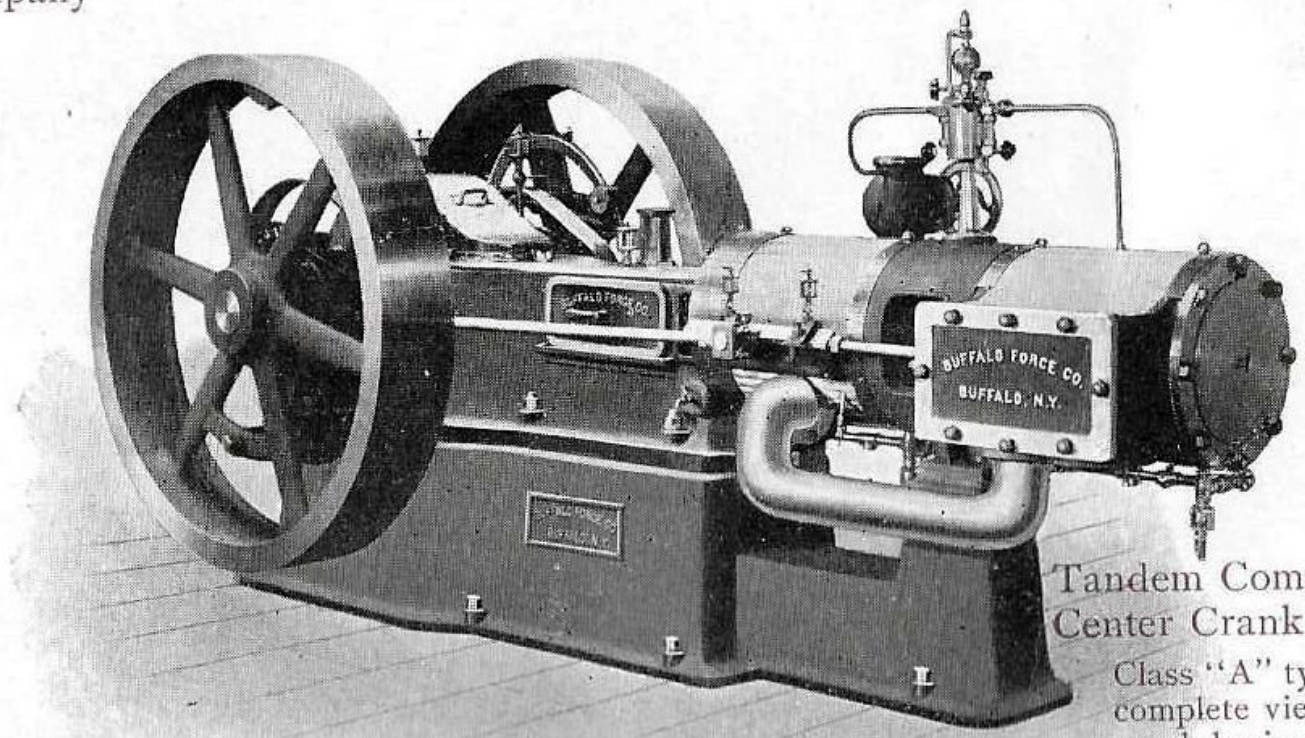


Buffalo Induced
Draft Fans

with outboard bearings, water-cooled type, single upright enclosed engines, cylinders above the shafts.

The
Buffalo Forge Company
Engine.
Buffalo, N. Y.,
U. S. A.



Tandem Compound
Center Crank

Class "A" type, horizontal. For complete views, center and side crank horizontals and all types of uprights, direct connected to generators, etc., see engine catalogue.

Buffalo Fans for
Mechanical Induced Draft.
Buffalo Forge Company,
Buffalo, N. Y.,
U. S. A.

EXPERIENCE IS A GOOD INDEX.

NEW YORK MILLS, N. Y., February 2, 1899.

BUFFALO FORGE COMPANY, BUFFALO, N. Y.

GENTLEMEN: In reply to yours of the 27th ult., would say that the economizer and induced draft apparatus has been working at our No. 3 mill now for about five weeks, and while we have not completed our test as to its efficiency as a coal saver, we do know that it is saving about 40 % in boiler horse-power, which, as we were situated last fall, is a great gain. We think that, from a rough estimate that we have made, the economizer is saving about 12 % of coal, but this is not altogether accurate. The induced draft is of great service provided the economizer is behind it to take the heat units out of the flues and put them into the feed water. Our feed water enters the boilers at 232 to 258 degrees while it goes into the economizer from the auxiliary heater at 130 degrees. We are reducing the temperature of the flue gases from about 650 before they enter the economizer to about 280 where they leave the fan, and are using soft coal and dust instead of pea coal; all of which means, as you will see, quite a radical change and considerable saving. We are very much pleased with the work you sent us.

Yours very truly,

THE NEW YORK MILLS,

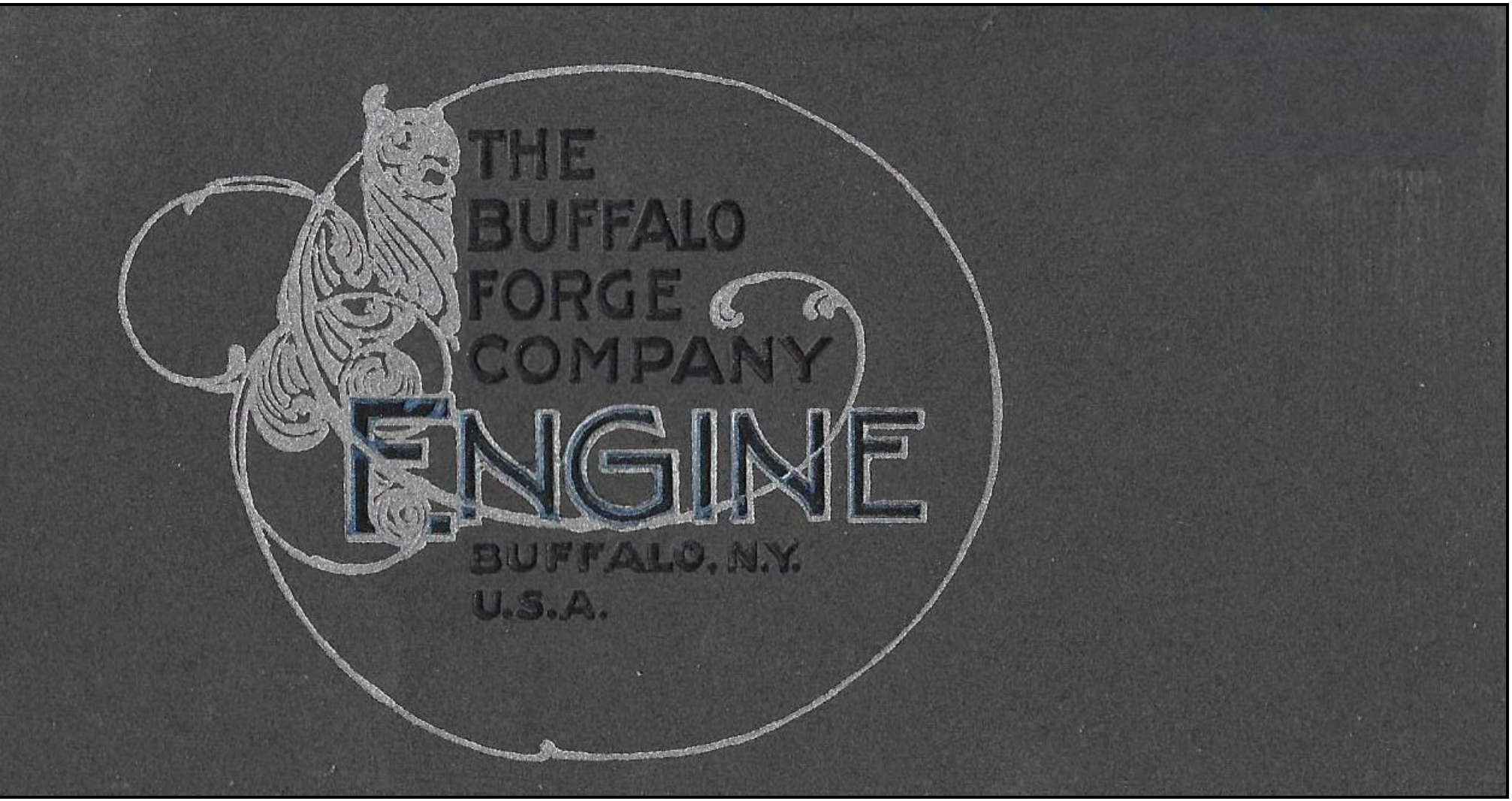
F. C. WALCOTT, Supt.

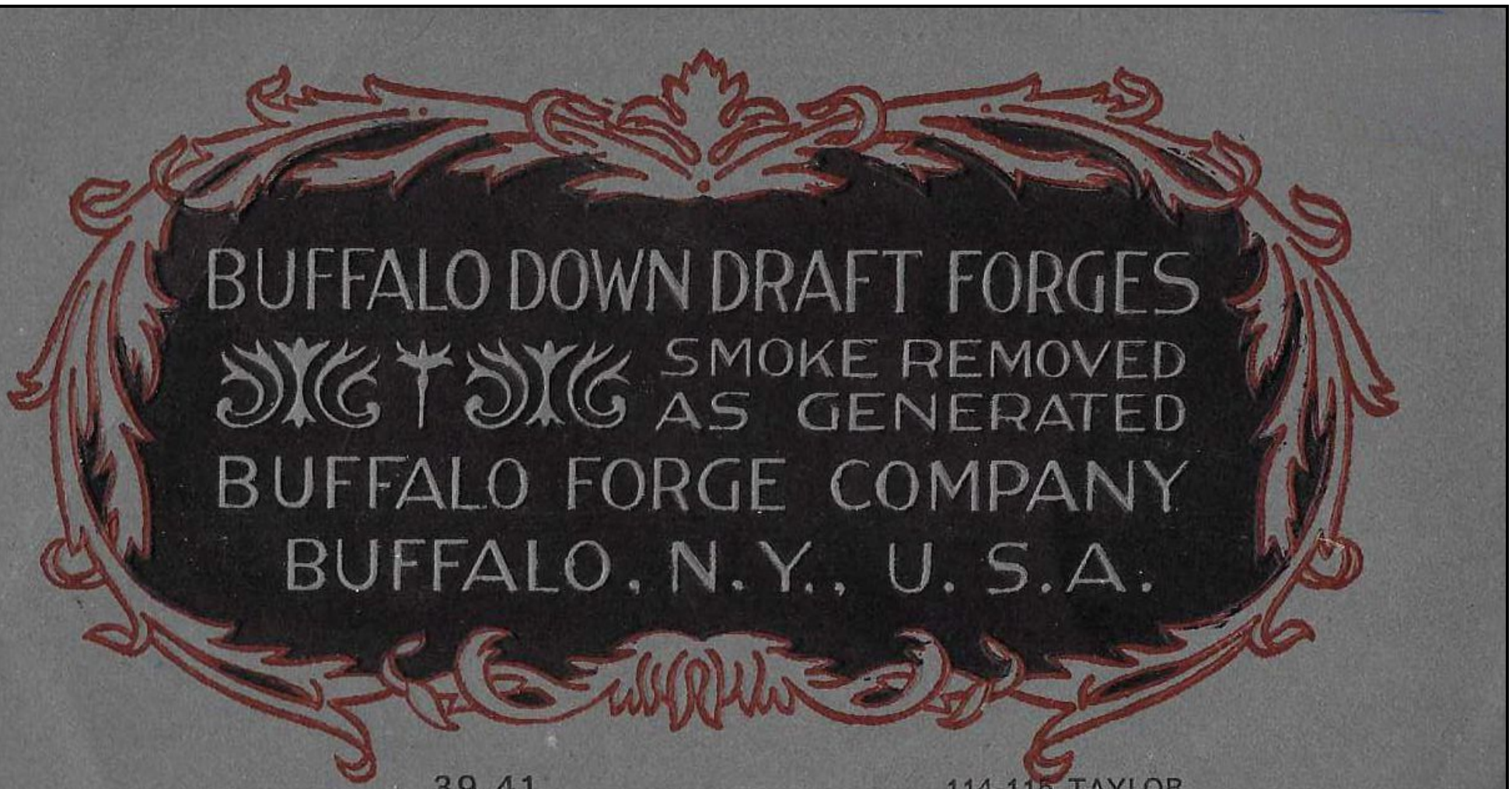
Words from users cover pertinent points: Smoke prevention, fuel economy, efficiency, increased boiler capacity, etc.

MECHANICAL FORCED DRAFT

BUFFALO FORGE COMPANY

BUFFALO, N.Y., U.S.A.


THE
BUFFALO
FORGE
COMPANY
ENGINE
BUFFALO, N.Y.
U.S.A.



NEW YORK OFFICE, ~~26~~ 39-41 CORTLANDT STREET, ~~405 RAYMEYER~~ 114-115 TAYLOR BUILDING.