

FORK LIFT HOISTS channel components for end wall of Brenzil prototype.

New type of farm building at dealer's near Acton

Just erected on the outskirts of Acton at the corner of the Blue Springs Line and No. 7 Highway, is a new type of farm building, 60 ft. long by 40 ft. wide. Since there are no interior columns, measurements represent free space.

The building, which stands on the property of farm equipment dealer Alfred Neuman, is a prototype, first in an intended line of structures made especially for the farm. At the moment, model No. 1 is being used to house farm machinery.

Underneath the cladding is what makes the building really different—an all-steel structural system developed by a farm building and contracting firm, Brenzil Construction Co. Limited of York, Ontario.

Some time ago, Jack Brenzil, concerned about soaring costs of traditional building materials, began to seek out and evaluate different materials and newer techniques that might help keep costs down. A friend who had attended Stelco sponsored seminars advised Brenzil the use of steel might solve his cost-squeeze dilemma. After investigating, Brenzil established guidelines for the prototype.

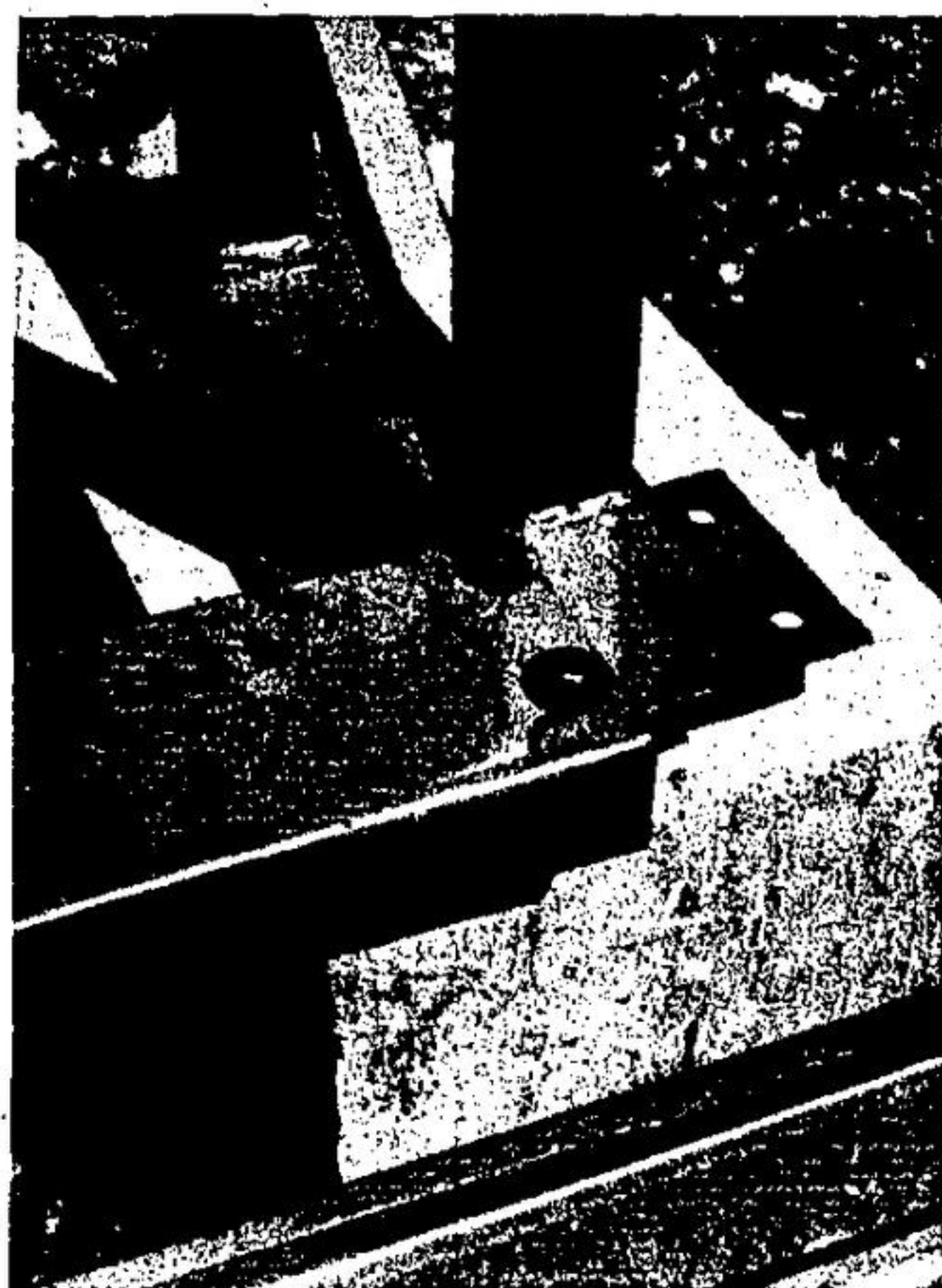
Three requisites —The first requirement was for economy. The building had to be made generally available at a competitive price.

—The next demand on any design was function; ease of fabrication, erection speed and lasting good appearance.

—The third stipulation was that the building remain adaptable to changing requirements. It must not become outdated—even over a long life span.

The end result of Brenzil's investigations and guidelines is the building near Acton. Much of the fabrication was done in Brenzil's shop in York, far from the construction site. This shop prefabrication of components ensures speedy, hence economical, erection. The site itself saw only the pouring of footings and erection of pre-engineered components.

Brenzil fabricated the prototype from as few different parts as possible. This built-in simplicity gave it economical, trouble-free erection. The structural heart of the building is hollow structural sections, shapes of steel with high strength and low weight, i.e. great structural efficiency—in the form of welded, rigid columns, and rafter components. Minimum inside clearance is 10½ ft.



BASES OF RIGID frames are secured to concrete footing, poured around Stelco 12-inch anchor bolts.

Two rigid frames, each made by bolting together two columns and two rafter components, support the structure. Although the prototype uses only two such frames in addition to its two end walls, future buildings based upon the prototype might use any number of the units and so be any length.

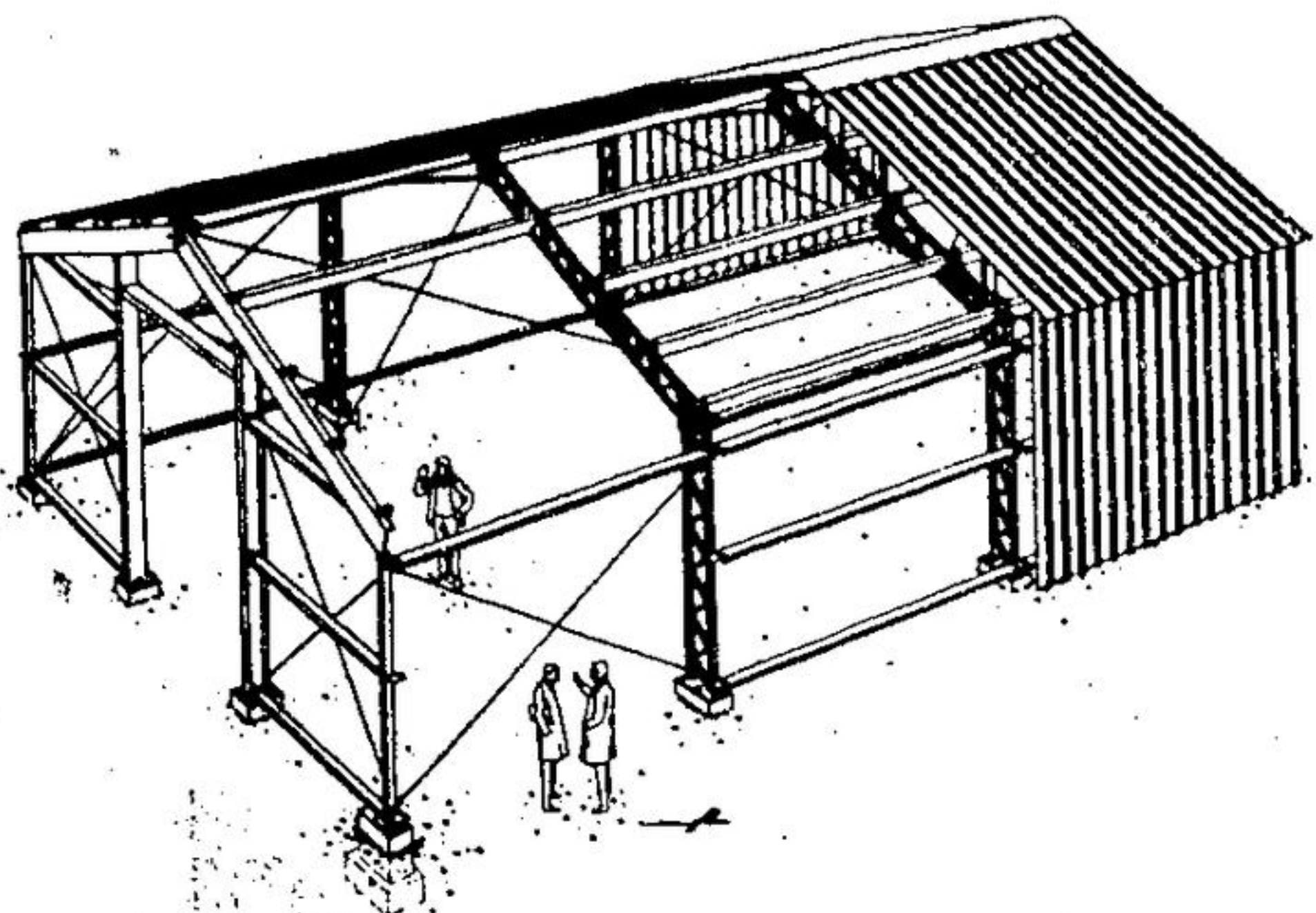
Four footings On the site, concrete column footings were poured around Stelco 12-inch anchor bolts to secure the bases of the columns. The rigid frames were assembled at the site with high-strength bolts, and were rigid enough to be erected in one piece.

The bolted rigid frames were hoisted up and fastened to foundations, then braced lengthwise by roof purlins of steel channels and by wall girts. Both girts and purlins came pre-cut and pre-drilled ready for bolting to the frames.

The end walls of the prototype

were custom-tailored to accommodate the requirements of a 20-foot-wide by 12-foot-high door. Along the sides, the 20-foot spacing between the frames also allows for large doors to be located there as well.

The finished building is maintenance free. The channels for roof purlins and walls, plus door frames, were supplied by Canadian Metal Rolling Mills



TOTAL-STEEL STRUCTURE built by Jack Brenzil near Acton. Minimum inside clearance is 10½ feet.

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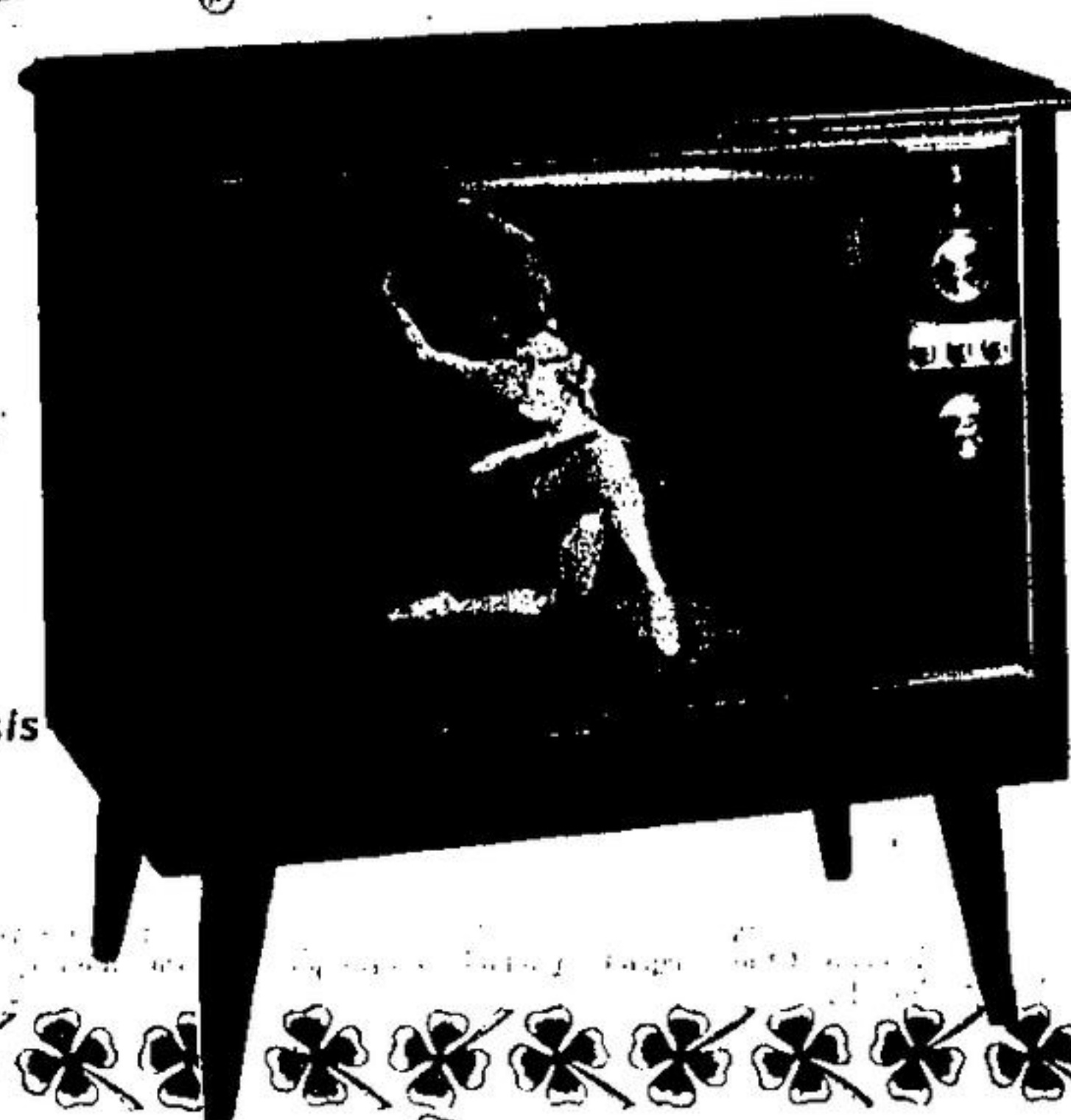
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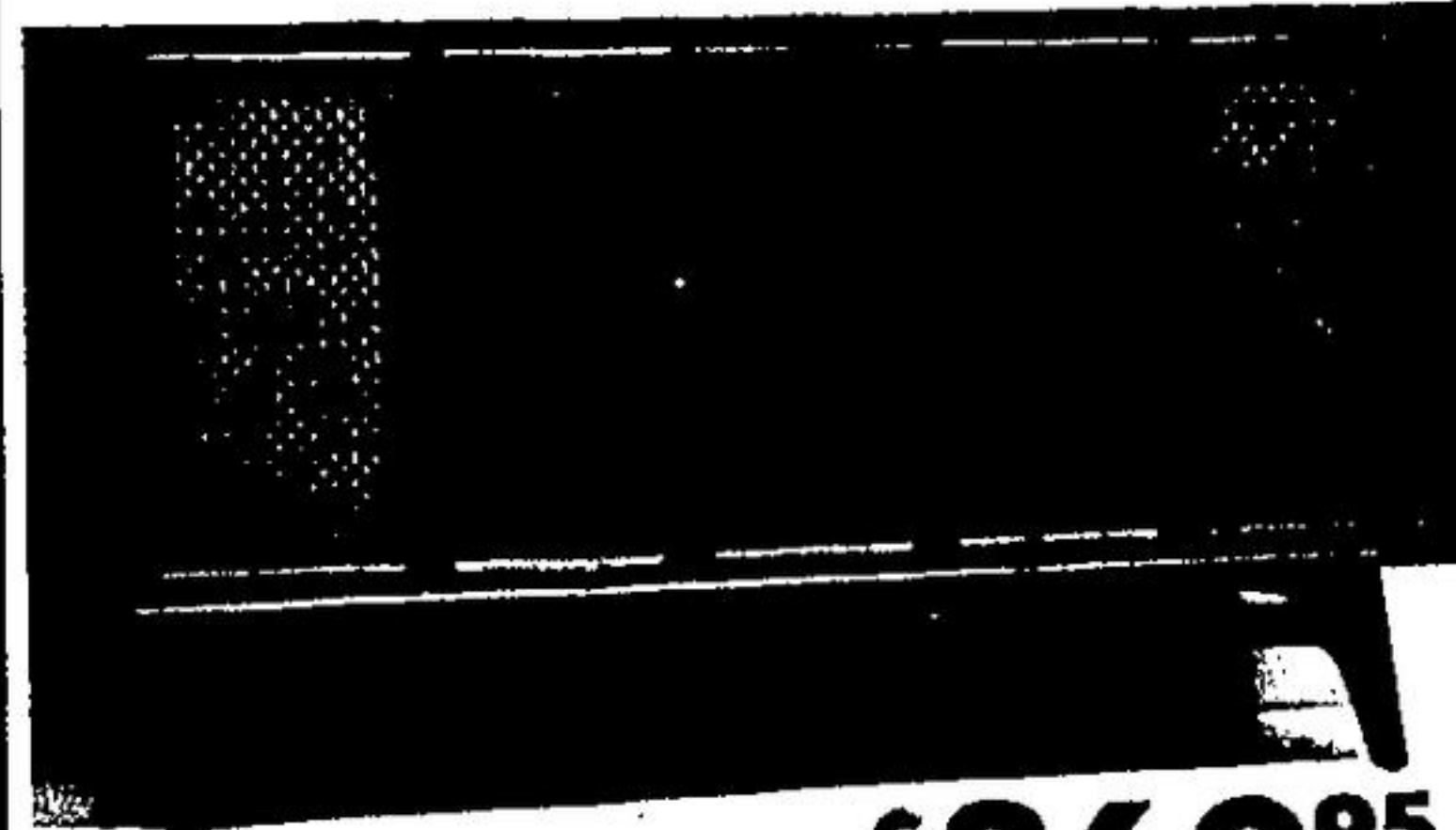
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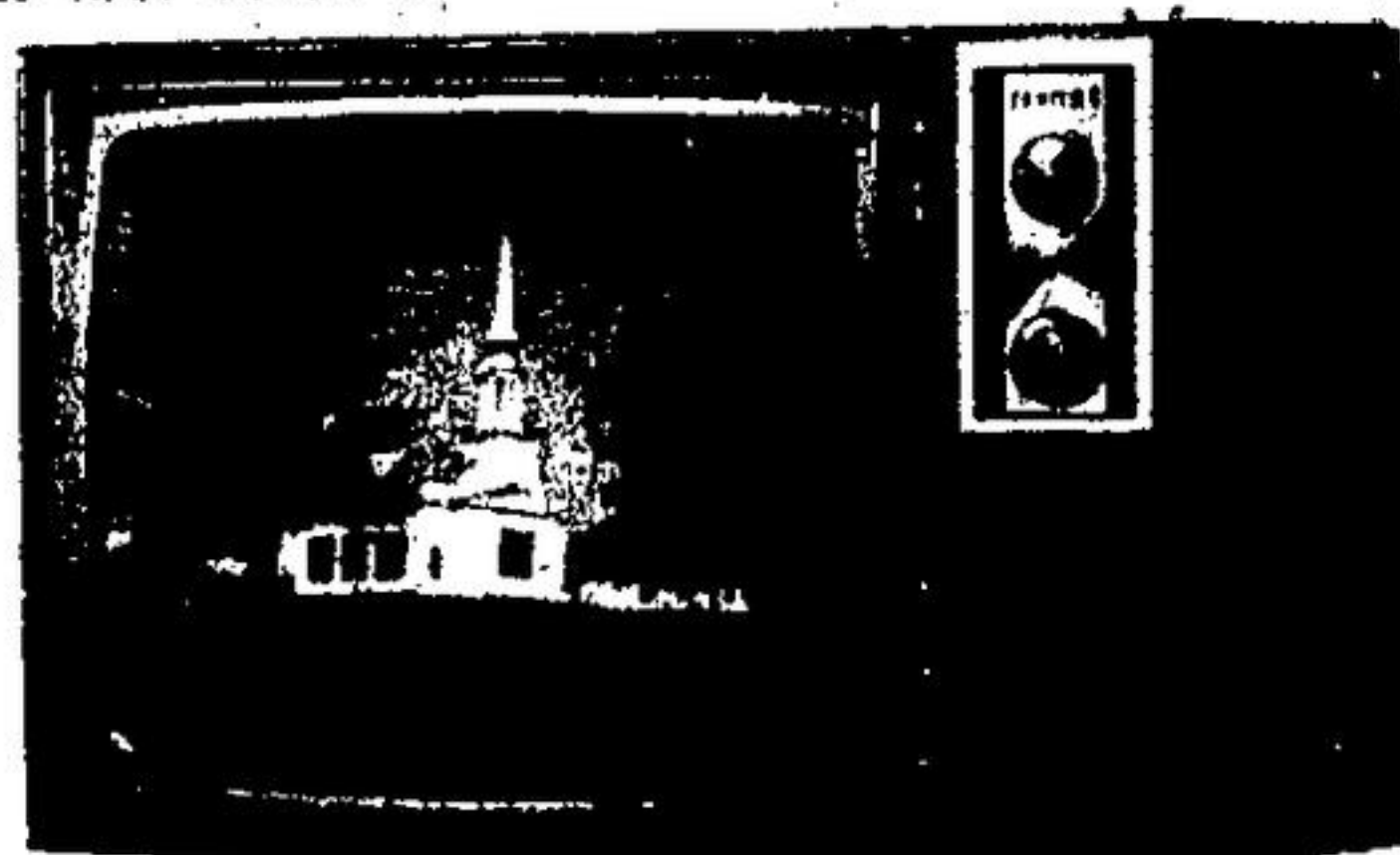
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