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ARTICLE HOLDER FOR LIQUID COATING MACHINES.
APPLICATION FILED FEB. 18, 1908.

930,129.

Patented Aug. 3, 1909.

Fig. 1.

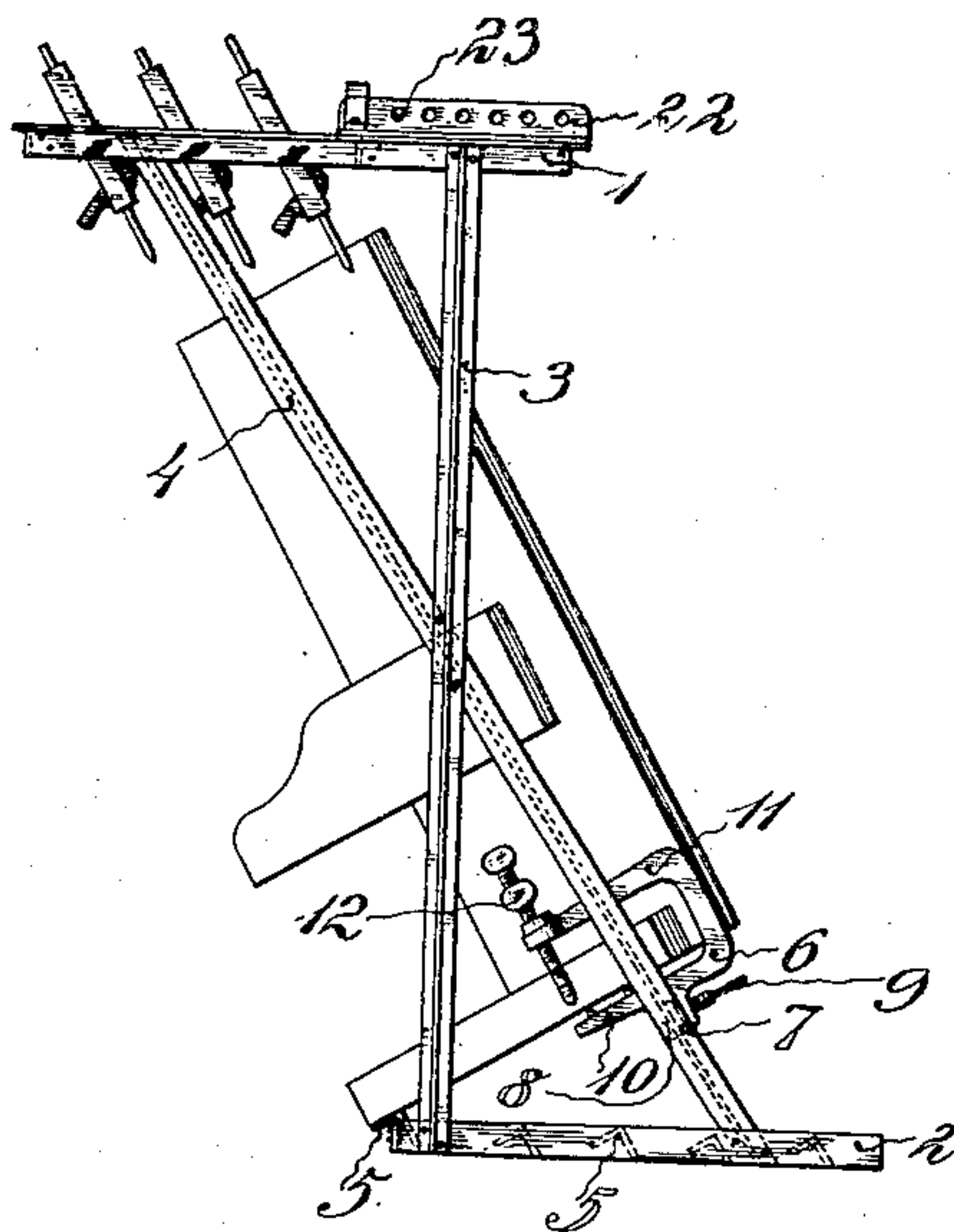


Fig. 2.

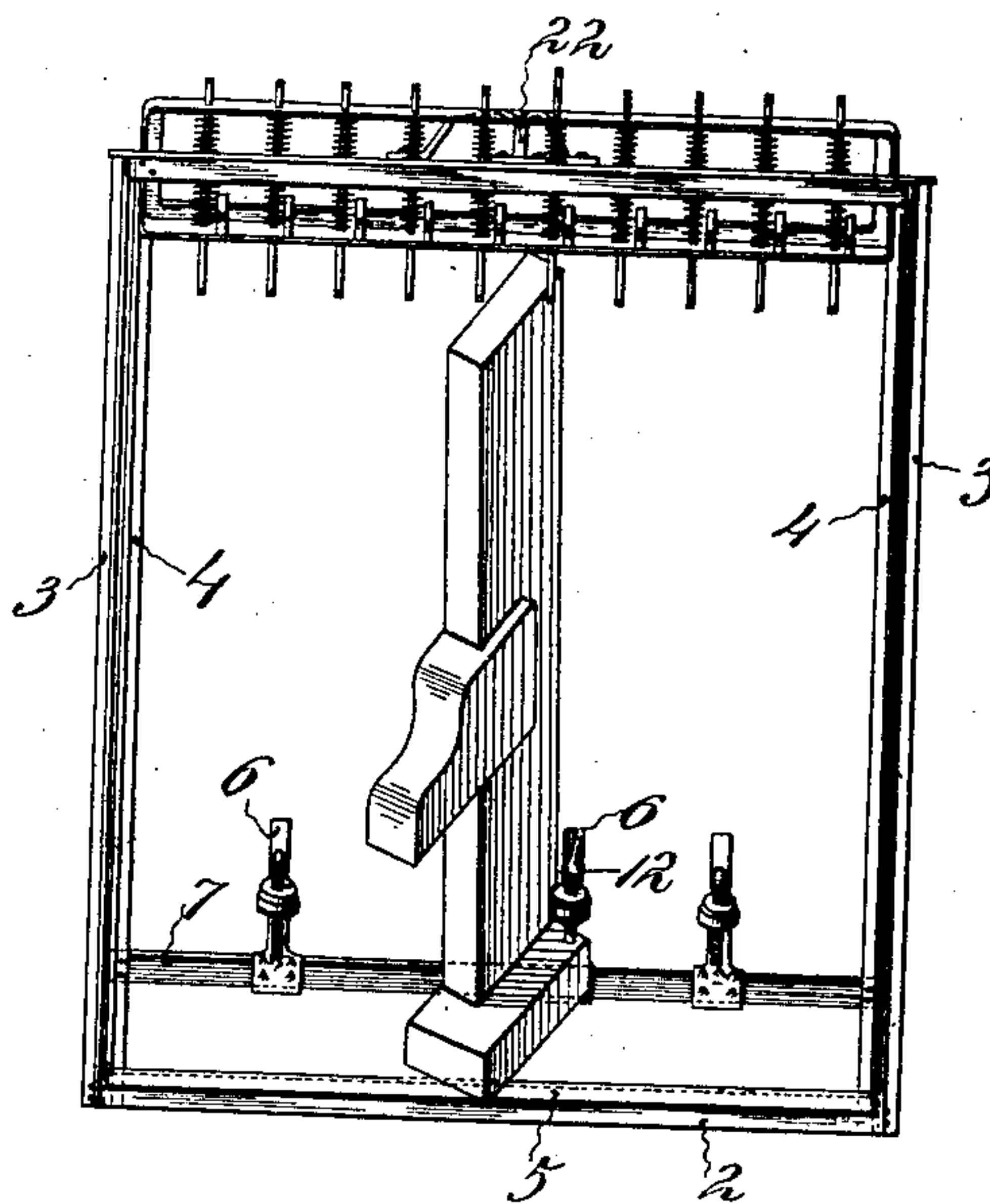


Fig. 3.

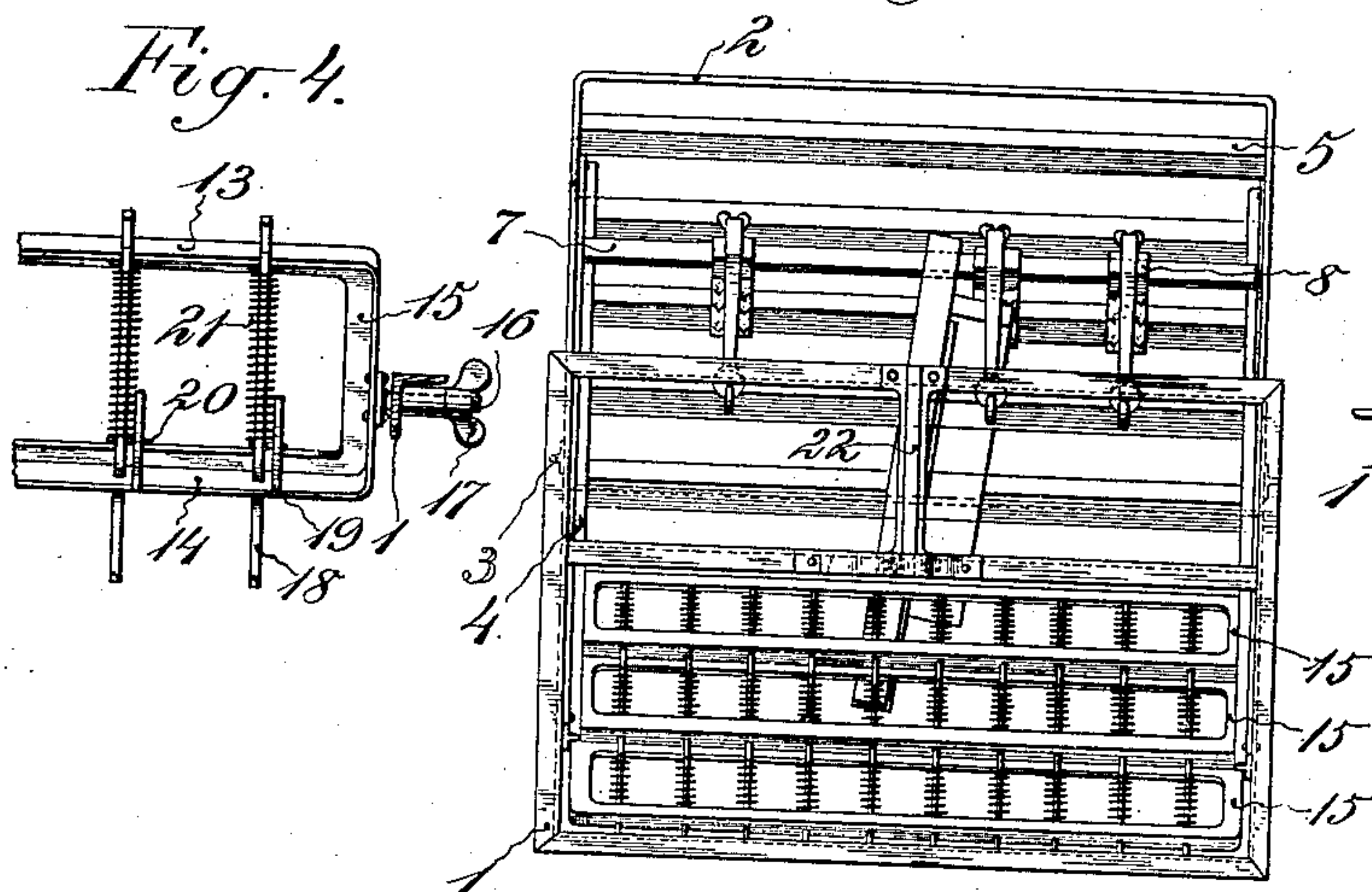
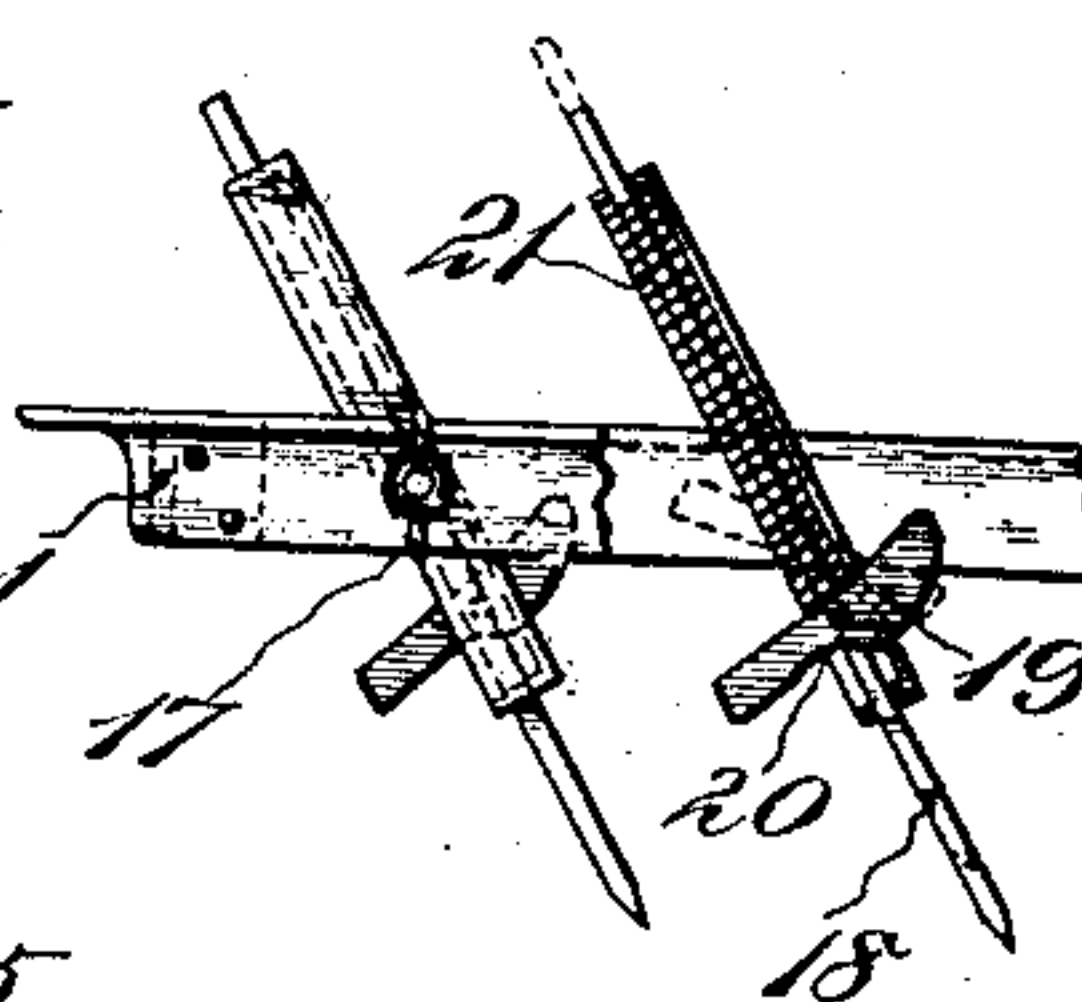
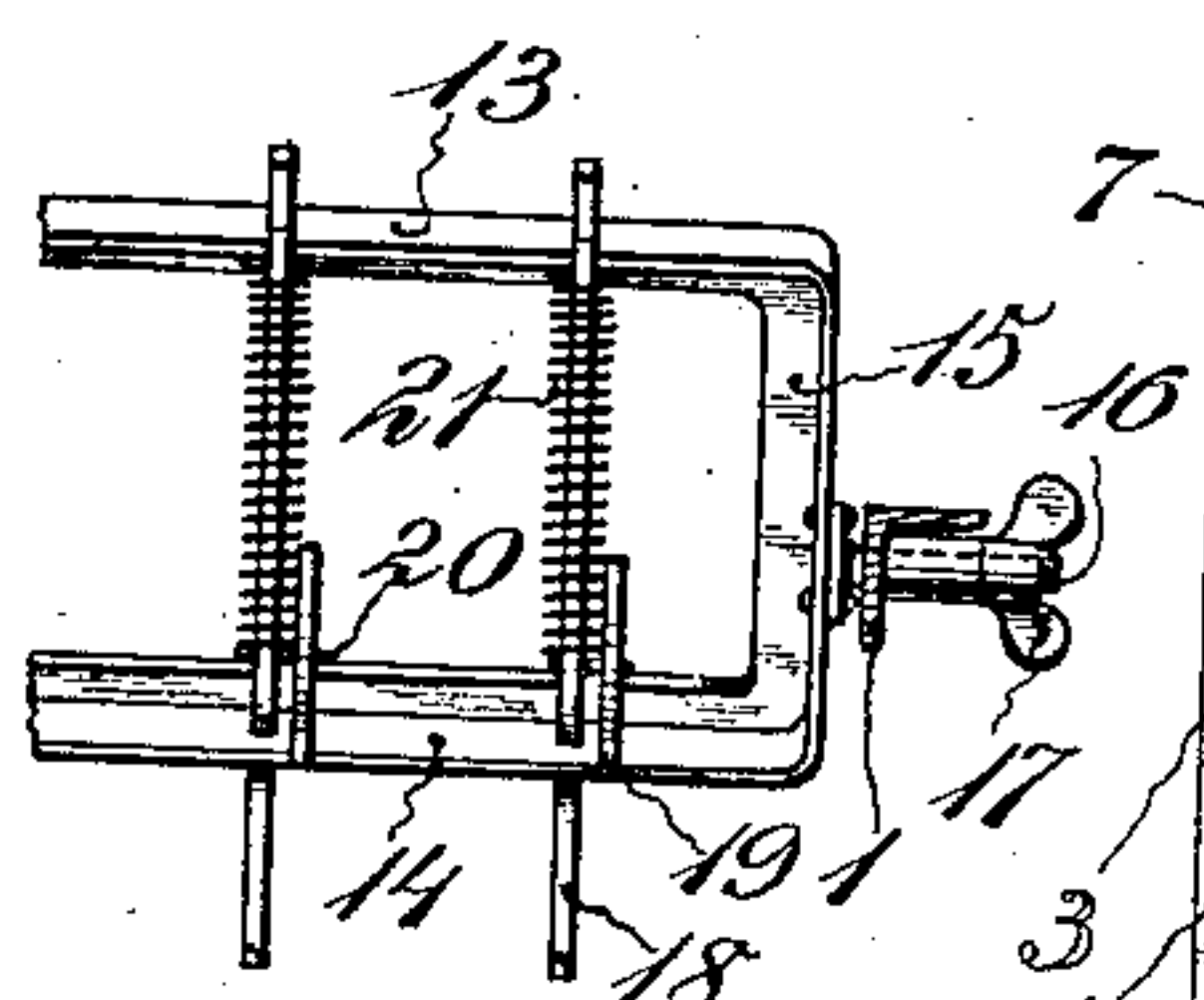


Fig. 4.



Witnesses:
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UNITED STATES PATENT OFFICE.

REME A. BEAUSEJOUR AND GUSTAV DRUBEL, OF NEW YORK, N. Y., ASSIGNORS TO STANDARD VARNISH WORKS, OF NEW YORK, N. Y., A CORPORATION OF NEW YORK.

ARTICLE-HOLDER FOR LIQUID-COATING MACHINES.

No. 930,129.

Specification of Letters Patent.

Patented Aug. 3, 1909.

Application filed February 18, 1908. Serial No. 416,487.

To all whom it may concern:

Be it known that we, REME A. BEAUSEJOUR, a subject of the Crown of Great Britain, and resident of the borough of Brooklyn, in the city and State of New York, and GUSTAV DRUBEL, a citizen of the United States, and resident of the borough of Richmond, in the city and State of New York, have invented a new and useful Improvement in Article - Holders for Liquid - Coating Machines, of which the following is a specification.

This invention relates to improvements in article holders for use in connection with liquid coating machines and has for its object to provide certain improvements in the construction, form and arrangement of the several parts of the holder whereby the articles may be supported in the desired angular position within the holder to produce the best results when the articles are being treated with the coating liquid.

A practical embodiment of our invention is represented in the accompanying drawings in which—

Figure 1 represents the holder in side elevation, a piano-board being shown supported in position therein, Fig. 2 is a front view of the same, Fig. 3 is a top plan view and Figs. 4 and 5 are enlarged detail views showing more clearly the construction, form and arrangement of the devices for supporting the tops of the articles.

The holder comprises a top 1, a bottom 2 and vertical and diagonal side bars 3 and 4 connecting the top and bottom. The major portion of the top 1 projects to the front of the vertical side bars 3 and the major portion of the bottom 2 projects to the rear of the said vertical side bars, so that the articles to be supported within the holder may be arranged in an inclined position therein.

A plurality of bars 5 extend across the bottom 2 of the holder to form supports for the bottoms of the articles to be treated. A plurality of clamps 6 are adjustable laterally along a cross bar 7 extending between the diagonal side bars 4 a short distance above the bottom 2 of the holder. These clamps 6 are provided with socket pieces 8 which embrace the cross-bar 7. Set screws 9 serve to secure these clamps 6 in any desired position. The lower jaw of each clamp is denoted by 10 and the upper jaw by 11. The

upper jaw is provided with a set screw 12 arranged to clamp a portion of the article to be treated between it and the lower jaw 10 of the clamp.

A plurality of loop frames are located at the top of the holder, each loop frame comprising upper and lower horizontal portions 13, 14 and side portions 15. Pivot bolts 16 extend from the side portions 15 of the loop frame through the sides of the top 1 of the holder and they are provided with clamp nuts 17 arranged to lock the loop frame in any desired angular position with respect to the top of the holder. There are a number of these loop frames provided so as to render the holder applicable for use in connection with articles of many different shapes and sizes.

Each loop frame is provided with a plurality of spring pressed longitudinally sliding fingers 18 having pointed inner ends arranged to engage the tops of the articles to be treated and assist in holding the articles in position in the holder. Each of these fingers 18 slides through the upper and lower portions 13, 14, of the loop frame and is provided with a withdrawing cam 19 pivoted at 20 on the said finger. A spring 21 is interposed between the withdrawing cam 19 and the upper portion 13 of the loop frame. The withdrawing cam 19 engages the lower portion 14 of the loop frame and when in one position permits the finger to yieldingly engage the article and when in another position will hold the finger in a withdrawn position. The top 1 of the holder is further provided with a plate 22 having a plurality of holes 23 there-through arranged upon both sides of the plane in which the vertical side bars 3 of the holder are located for use in suspending the holder from a carriage, not shown herein.

The holder constructed as shown and described, permits the articles to be supported therein at the desired angular position to insure the liquid dropping therefrom along the corners of the articles, thus preventing any liability of the surfaces of the articles from becoming streaked, a trouble which is common at the present time in liquid coating machines.

It is evident that various changes might be resorted to in the construction, form and arrangement of the several parts without departing from the spirit and scope of our in-

vention; hence we do not wish to limit ourselves strictly to the structure herein set forth, but

What we claim is:

- 5 1. An article holder for liquid dipping machines comprising a skeleton frame having top, bottom and sides, spring-pressed fingers carried by the top of the frame, a cross-bar near the bottom of the frame, and article
10 supporting clamps adjustable laterally thereon with respect to the said spring-pressed fingers whereby an article may be held in the desired angular position within the holder.
- 15 2. An article holder for liquid dipping machines comprising a frame and means for supporting an article in the desired angular position therein, comprising an adjustable clamp for engaging one portion of the article, spring-pressed fingers for engaging another portion
20 of the article and an angularly adjustable support for said spring-pressed fingers.
- 25 3. An article holder for liquid dipping machines comprising a frame, and means for supporting an article in the desired angular position therein, comprising an adjustable clamp for engaging one portion of the article and a plurality of series of spring-pressed
30 adjustable supports for the said several series of spring-pressed fingers.
4. An article holder for liquid dipping ma-

chines comprising a frame and means for supporting an article in the desired angular position therein, comprising a clamp for engaging 35 one portion of the article, a spring-pressed finger for engaging another portion of the article and a manually operated cam for withdrawing the said spring-pressed finger.

5. An article holder for liquid dipping machines comprising a main frame and means 40 for supporting an article in the desired angular position therein, comprising a loop frame pivotally adjustable in the said main frame and a plurality of spring-pressed fingers carried by said loop frame. 45

6. An article holder for liquid dipping machines comprising a main frame and means for supporting an article in the desired angular position therein, comprising a plurality 50 of loop frames each pivotally adjustable in the said main frame and a plurality of spring-pressed fingers carried by each of the said loop frames.

In testimony, that we claim the foregoing 55 as our invention, we have signed our names in presence of two witnesses, this fourteenth day of February 1908.

REME A. BEAUSEJOUR.
GUSTAV DRUBEL.

Witnesses:

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FRED. MORHARD.