

(No Model.)

3 Sheets—Sheet 1.

S. WRIGHT.
MECHANISM FOR THE MANUFACTURE OF CASKS, BARRELS, AND
THE LIKE.

No. 452,629.

Patented May 19, 1891.

FIG. 1.

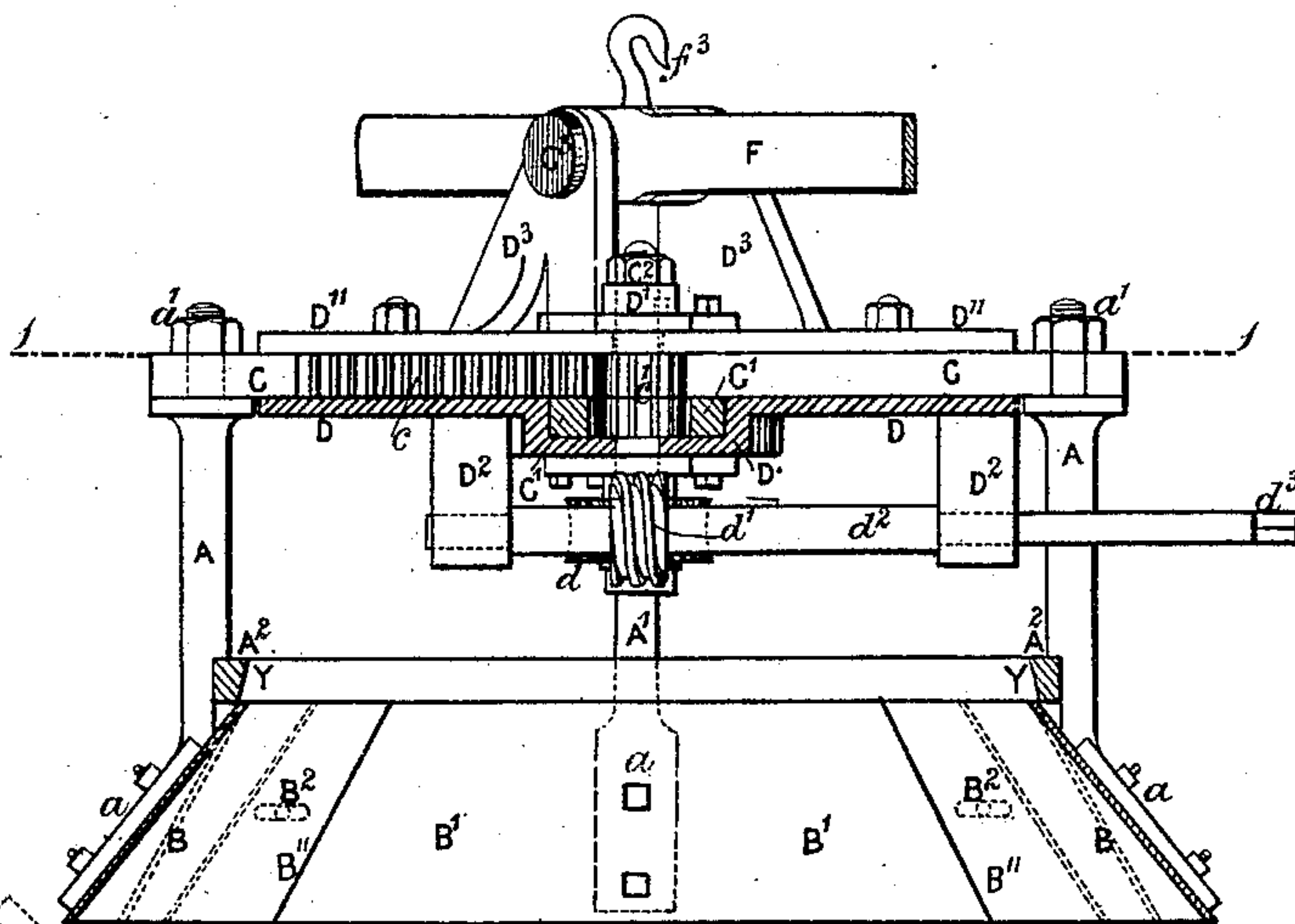
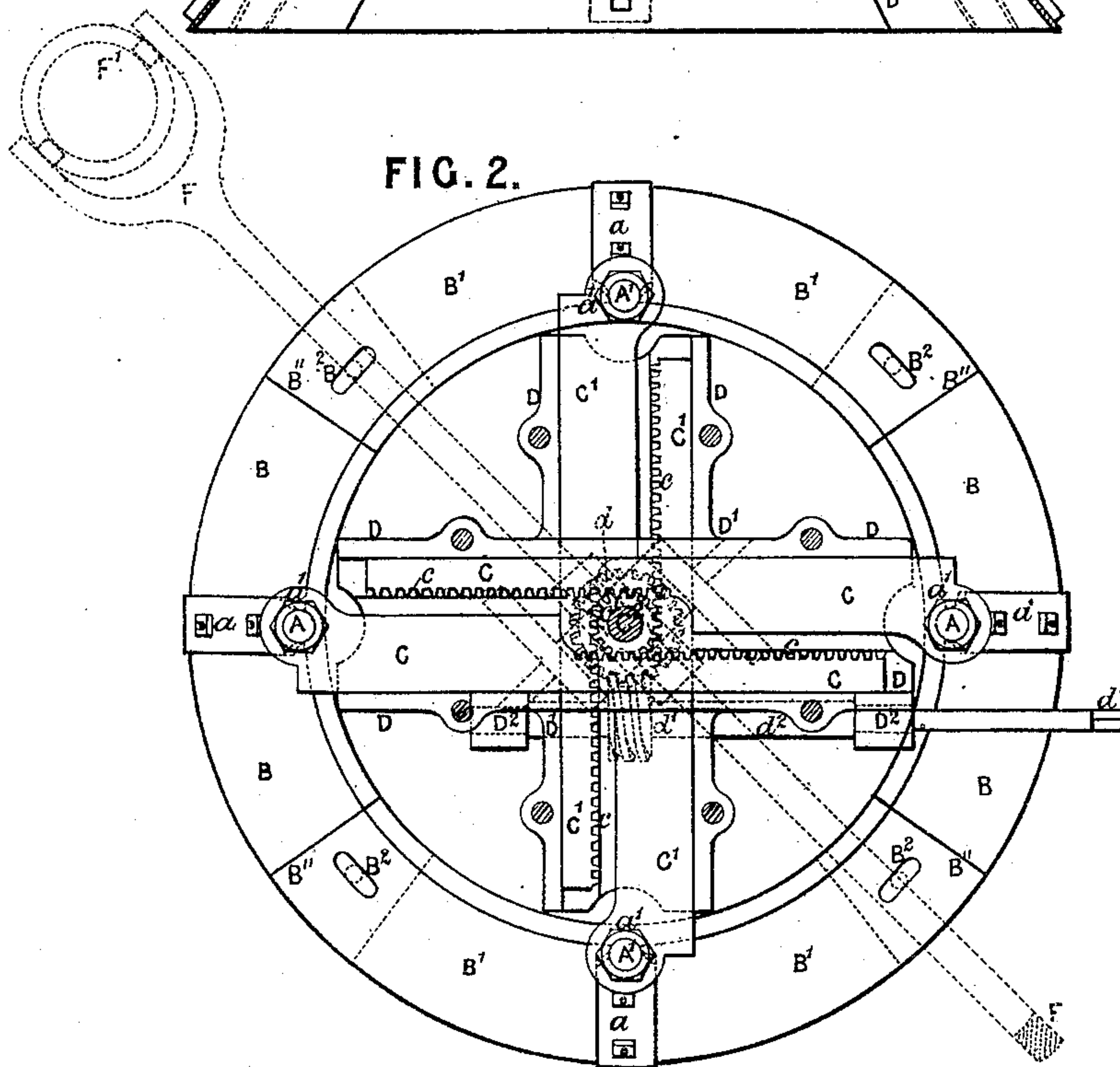


FIG. 2.



Witnesses:

George Baumann

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By his Attorneys

Howen and Howen

(No Model.)

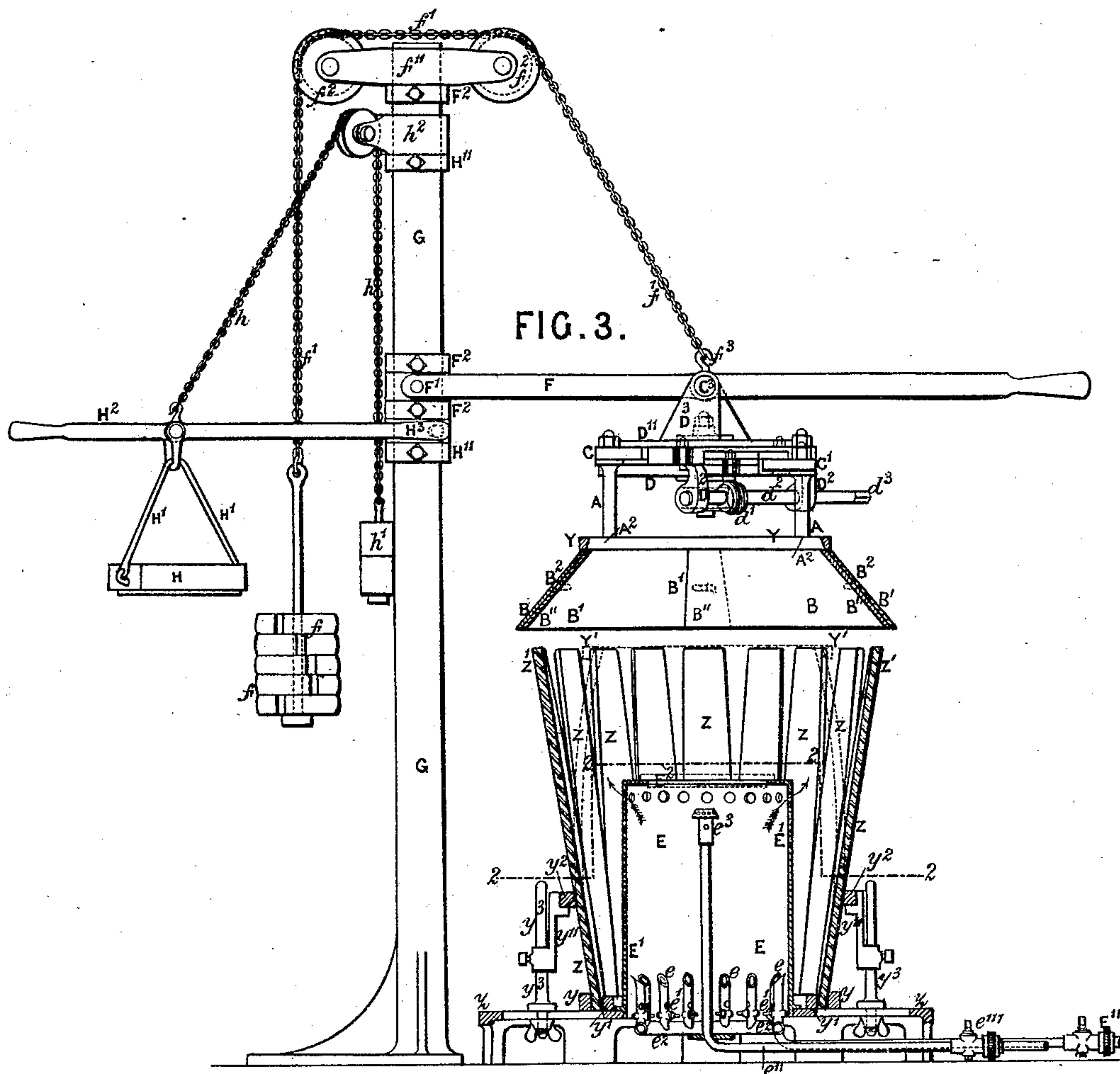
3 Sheets—Sheet 2.

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3 Sheets—Sheet 3.

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FIG. 4.

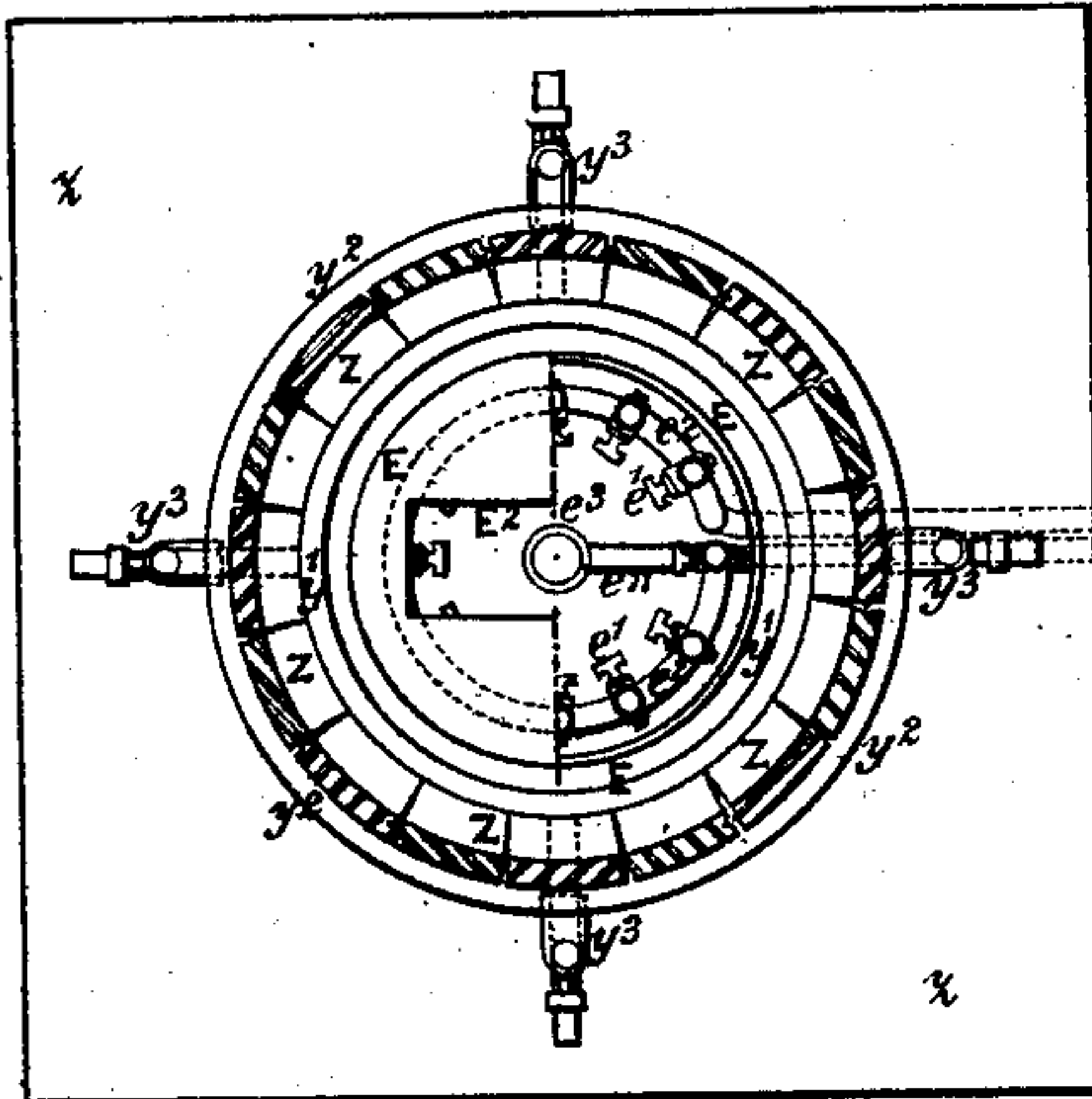


FIG. 5.

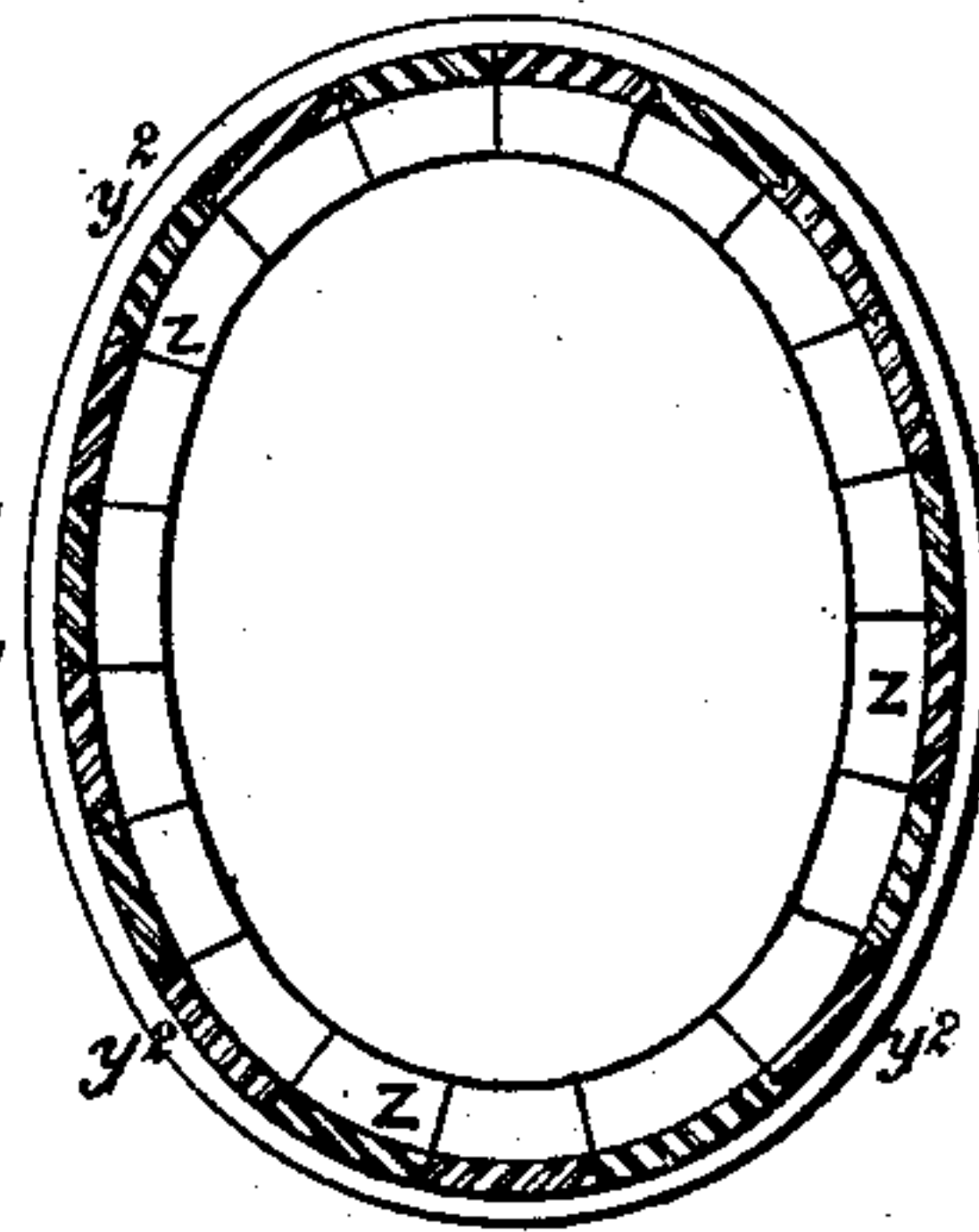
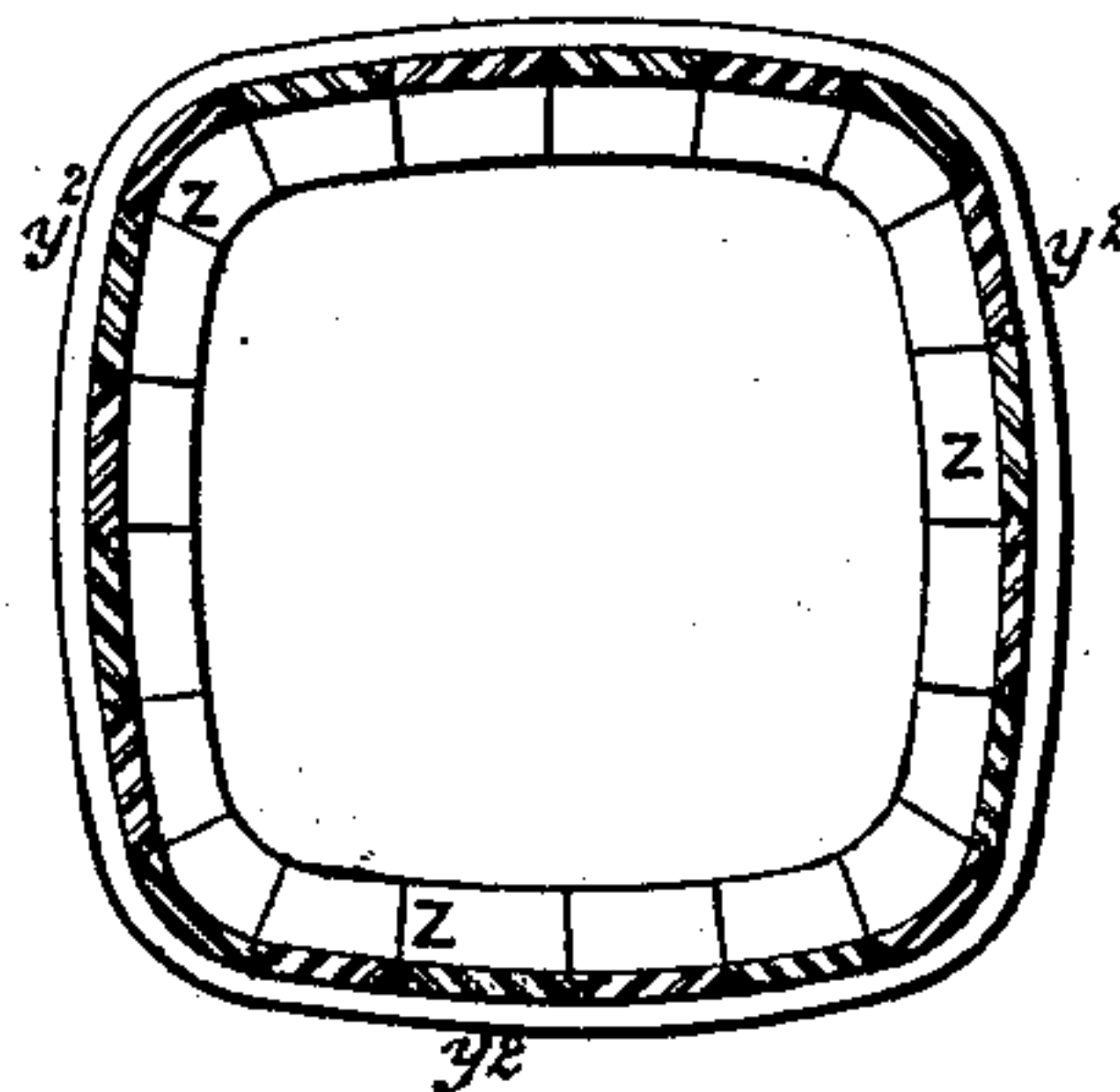


FIG. 6.



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UNITED STATES PATENT OFFICE.

SAMUEL WRIGHT, OF GLASGOW, SCOTLAND, ASSIGNOR TO HIMSELF, JAMES MUIR, AND WILLIAM BOYD, OF SAME PLACE.

MECHANISM FOR THE MANUFACTURE OF CASKS, BARRELS, AND THE LIKE.

SPECIFICATION forming part of Letters Patent No. 452,629, dated May 19, 1891.

Application filed April 21, 1890. Serial No. 348,886. (No model.) Patented in England February 29, 1888, No. 3,092; in Germany May 8, 1888, No. 45,900; in France August 23, 1888, No. 189,317; in Belgium August 24, 1888, No. 83,007, and in Spain December 26, 1888, No. 8,802.

To all whom it may concern:

Be it known that I, SAMUEL WRIGHT, machinist, a subject of the Queen of Great Britain and Ireland, residing at 96 Buchanan Street, Glasgow, in the county of Lanark, Scotland, have invented Improvements in Mechanism Relating to the Manufacture of Casks, Barrels, Box Barrels or Packages, and such like Articles, of which the following is a specification.

Patents have been obtained for said invention in Great Britain, No. 3,092, dated February 29, 1888; in France, No. 189,317, dated August 23, 1888, Patent of Addition to No. 189,317, dated March 13, 1888; in Belgium, No. 83,007, dated August 24, 1888, Patent of Addition to No. 81,025, dated March 14, 1888; in Spain, No. 8,802, dated December 26, 1888, and in Germany, No. 45,900, dated May 8, 1888.

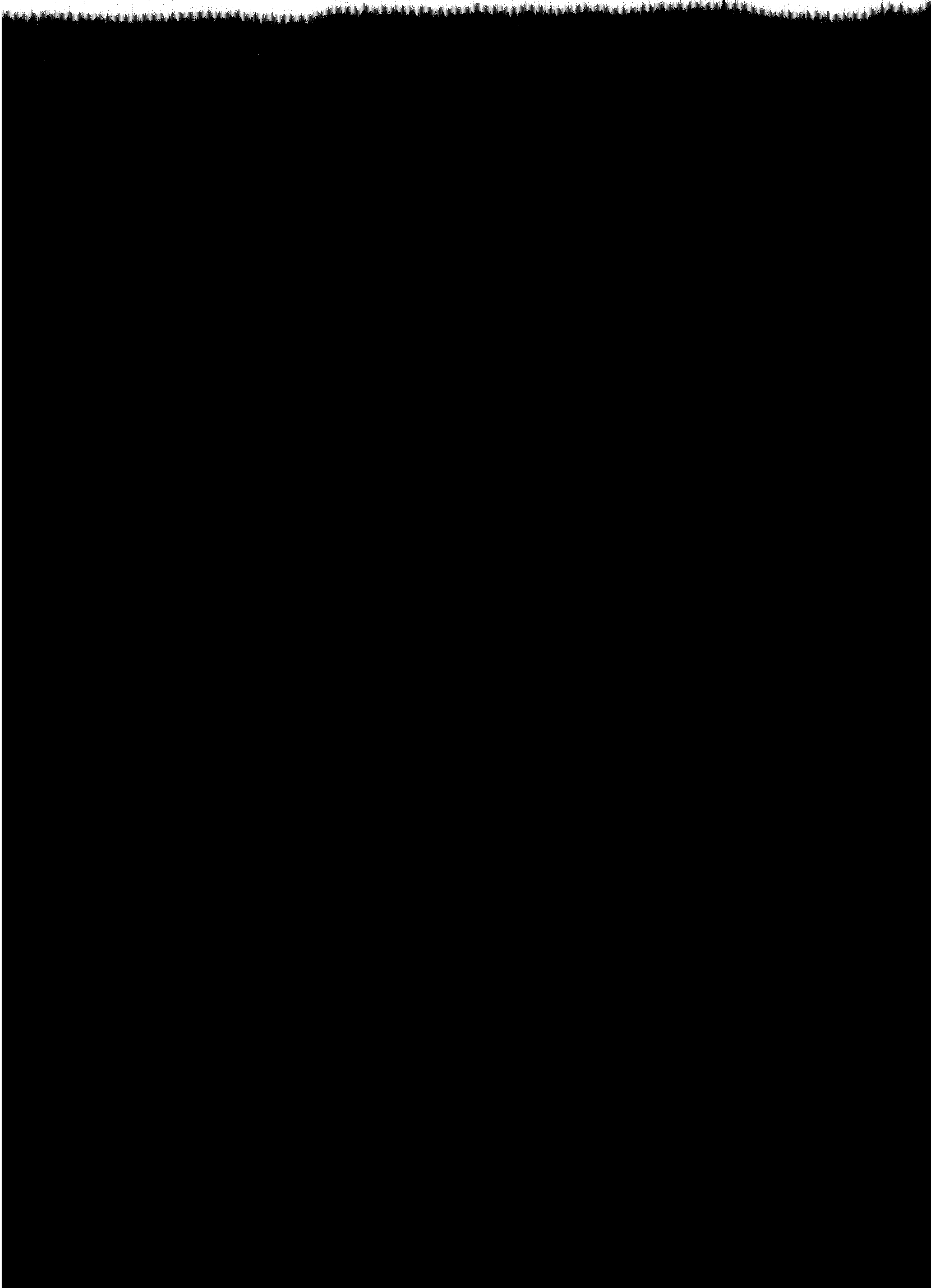
This invention has reference to improvements in and relating to the manufacture of casks, barrels, box barrels or packages, and such like articles, and in the mechanism or appliances therefor, and comprises new or improved combinations of mechanism and appliances for setting up, gathering, or compressing the staves together and putting on the upper temporary truss-hoops on the barrels or box barrels.

In order to enable others skilled in the art to which my invention relates to understand how it may be carried into practice, I have hereto appended three explanatory sheets of drawings, in which the same reference-letters are used to indicate corresponding parts in all the figures where shown.

Figure 1 on Sheet 1 is an elevation, partly in section, of my new or improved portable mechanism for setting up or gathering and compressing the staves into the shape of a barrel or box barrel; and Fig. 2 is a plan as taken on the line 1 1 of Fig. 1 with the top cover D'' removed. Fig. 3 on Sheet 2 represents an elevation, partly in section, showing the compressing portable sectional frame B B' and arrangement of swiveling lever F and counter-weights f for operating same to a smaller scale than in Figs. 1 and 2, and showing the swiveling lever H² for actuating the branding-stamp H. Fig. 4 on Sheet 3 is plan

view taken on the line 2 2, Fig. 3; and Figs. 5 and 6 show sectional views of an oval barrel and a box-barrel, respectively.

Referring to the drawings the improvements of my invention consist all as follows: Under one construction or arrangement and combination of the parts shown in these drawings my new or improved stave setting up or gathering and compressing mechanism consists of a portable open vertical frame work of four standards A A and A' A', having secured by flanges *a* at their lower ends a conoidal compressor formed of sections or segments B B B' B', of plate or sheet metal, so that the whole of the sections form an open conoidal metallic casing overlapping and working over each other at their ends B'', with pins and moving slotted holes at B² in the segments B B and B' B' made approximately to the shape in plan of the barrel or box barrel—that is, round for round casks, oval for oval casks, and approximately rectangular with rounded corners for square or rectangular barrel cases, as shown, respectively, in Figs. 4, 5, and 6 on Sheet 3, and of an angle as, say, from forty-five to thirty degrees off the vertical line, as shown in sharp and dotted lines in Fig. 1, thus enabling the same mechanism with different-shaped conoidal sections B B' to answer for gathering and compressing various sizes and shapes of barrels or box barrels. The standards A A and A' A' of these movable sections B B B' B' are secured at their upper ends *a'* to slide rack bars or plates C C and C' C', the two opposite bars C C working parallel to each other at right angles to those C' C' of the other two standards in a different plane close over each other. These rack-bars C and C' project inward and their teeth *c* gear into or mesh with a single spur-wheel *c'*, or a spur-wheel *c'* to each pair of rack-bars C C and C' C', mounted on a vertical spindle C², passing through the boss D' of the horizontal cross-armed frame D, carrying the whole and forming slide-guides for the reciprocating arms C C', with retaining-covers D''. On the lower end of this spindle C² a screw-wheel *d* is mounted, which is rotated by a worm-wheel *d'* on a horizontal shaft *d*², carried in bearing-blocks D², attached to the un-



one central spur-wheel e' and screw-spindle C^2 by one screw wheel and spindle $d' d^2$, substantially as described.

2. In mechanism for gathering and com-
5 pressing staves into the shape of casks or bar-
rels and box barrels or packages, the means
for raising, lowering, and swiveling the com-
pressing sectional frame $B B'$, and compris-
ing the combination of a beam-lever F , ful-
10 crumed and swiveled on a vertical standard

G and balanced by a counter-weight, substan-
tially as herein described.

In testimony whereof I have signed my
name to this specification in the presence of
two subscribing witnesses.

SAMUEL WRIGHT.

Witnesses:

JOHN SIME,

R. C. THOMSON.