

R. C. RAHM.
BRAIDING MACHINE.
APPLICATION FILED OCT. 15, 1908.

936,357.

Patented Oct. 12, 1909.

Fig. 1.

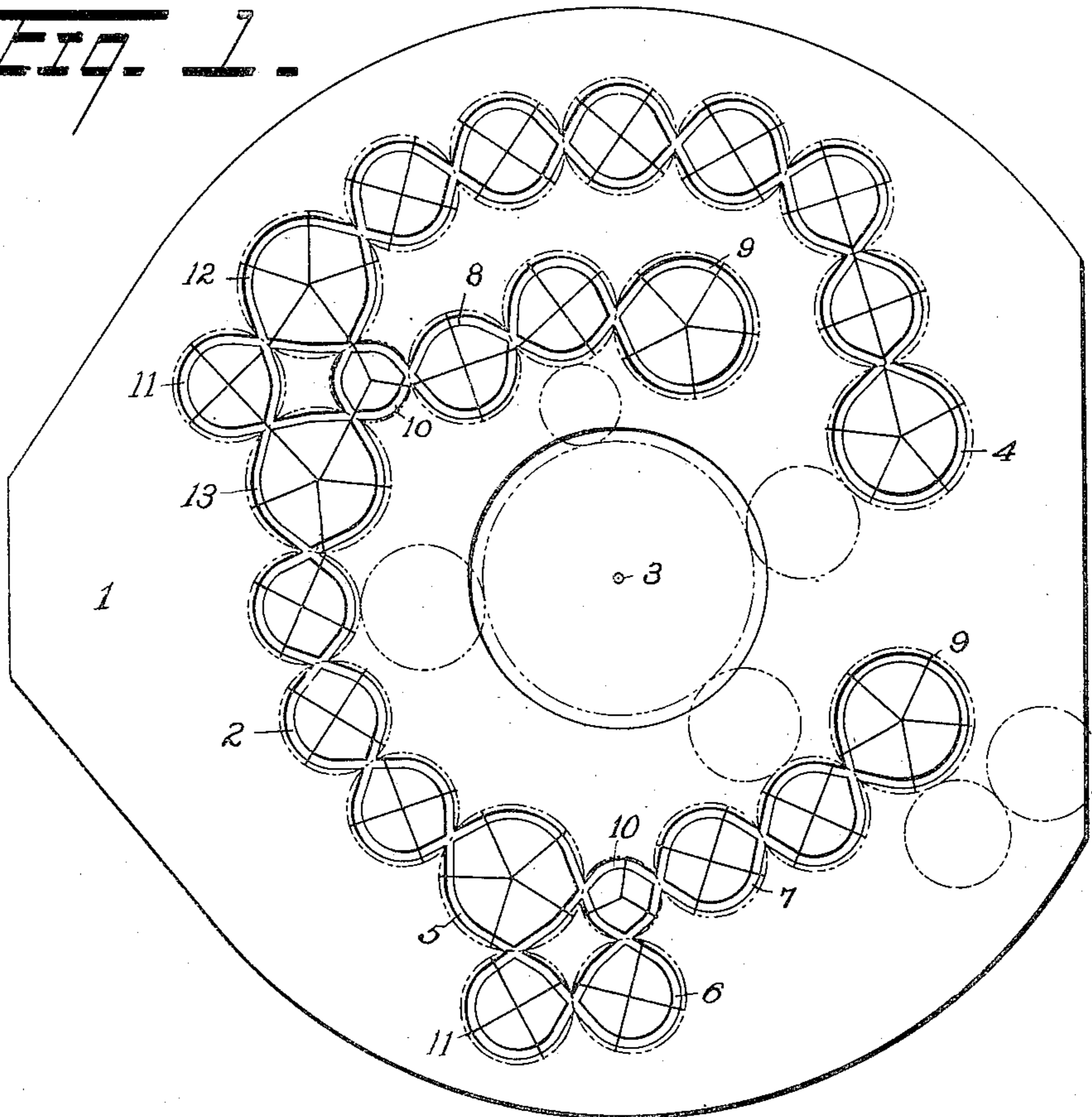
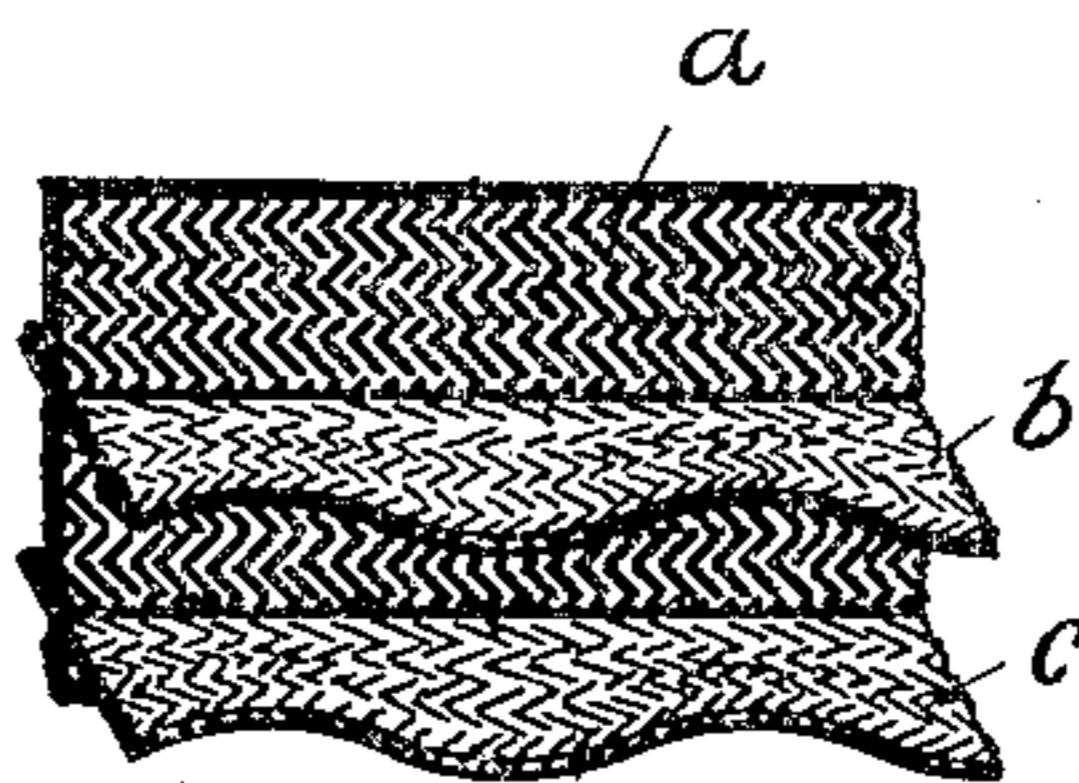


Fig. 2.



Robert C. Rahm,
Inventor

Witnesses
Cal J. Pieber,
R. M. Murawski

By *J. H. Stewart*
Attorney

UNITED STATES PATENT OFFICE.

ROBERT C. RAHM, OF WYOMISSING, PENNSYLVANIA, ASSIGNOR TO TEXTILE MACHINE WORKS, OF WYOMISSING, PENNSYLVANIA, A CORPORATION OF PENNSYLVANIA.

BRAIDING-MACHINE.

936,357.

Specification of Letters Patent.

Patented Oct. 12, 1909.

Application filed October 15, 1908. Serial No. 457,770.

To all whom it may concern:

Be it known that I, ROBERT C. RAHM, a citizen of the United States, and a resident of the borough of Wyomissing, in the county of Berks and State of Pennsylvania, have invented certain new and useful Improvements in Braiding-Machines, of which the following is a specification.

My invention relates to braiding machines and my object is to provide an improved machine adapted to produce an integrally formed flange braid comprising a cross-braid interwoven with an ordinary braid as hereafter described.

The invention is fully described in connection with the accompanying drawing and the novel features are particularly pointed out in the subjoined claims.

Figure 1 is a diagrammatic plan view of the bed plate of a braiding machine embodying my invention. Fig. 2 indicates the character of braid which my improved machine is especially adapted to produce.

Referring to the drawing it will be understood that drive gears for the bobbin carriers, indicated by the dotted pitch circles, are mounted as usual between the top-plate 1 of the machine and a bottom plate not shown; and that the carrier-operating mechanism employed is well known in its general features so that only the special arrangement of the race-circle courses constituting the novel features of my invention need be specifically described.

As shown in the drawing I provide a main-braid race-circle course 2 bent around a braiding point 3, said course as shown having a single terminal 4 and a compound terminal 5, 6. Upon this course carriers are traversed by well known means to produce a flat braid as usual.

To provide for producing the flange-braid desired, one or more separate race-circle courses are added, being so arranged that the race-circles will cross the main-braid race-circle course so as to interlock the simultaneously formed braids at the point or points of intersection.

As shown in the drawing I have indicated two flange-braid courses 7 and 8 each provided with a single-terminal 9 and a compound-terminal 10, 11. The one course

7 is passed through the main-course race-way 2 at the terminal 5, 6 thereof as shown. The other course 8 is passed through the main-course race-way at a point intermediate its ends; a compound race-circle 12, 13 being provided in the main-course 2 at the point of crossing of the flange-course 8. Separate series of carriers are traversed on the separate race-circle courses 7 and 8 and it will be readily understood that the construction shown and described will produce a braid as indicated in Fig. 2 of the drawing,—that is a main-braid *a* and two flange portions *b* and *c* interwoven to the main braid at the intersection with the latter.

The flange-braid course may be made to cross the main-course at any point in the length of said course and any convenient number of flange-courses may be provided running parallel with certain portions of the main-course as indicated. The flange-course may obviously be extended to a greater or less extent across the main-course to form a double flange-braid effect, one on each side of the main-braid, and the carriers upon either course may be omitted at any time to produce ordinary braid as desired.

What I claim is:—

1. A braiding machine having a main flat-braid carrier course, a plurality of intersecting carrier-courses each comprising a single terminal and a compound terminal, and separate series of carriers arranged to independently traverse the respective courses so as to produce an integrally formed flange-braid substantially as described.

2. A braiding machine comprising a main flat-braid carrier course bent around the braiding center and having an intermediate compound race-circle, and a separate-carrier course located between a portion of said main-course and the braiding center and having a single terminal at one end and a compound terminal crossing said compound race-circle substantially as set forth.

In testimony whereof, I affix my signature, in the presence of two witnesses.

ROBERT C. RAHM.

Witnesses:

D. M. STEWART,
W. G. STEWART.