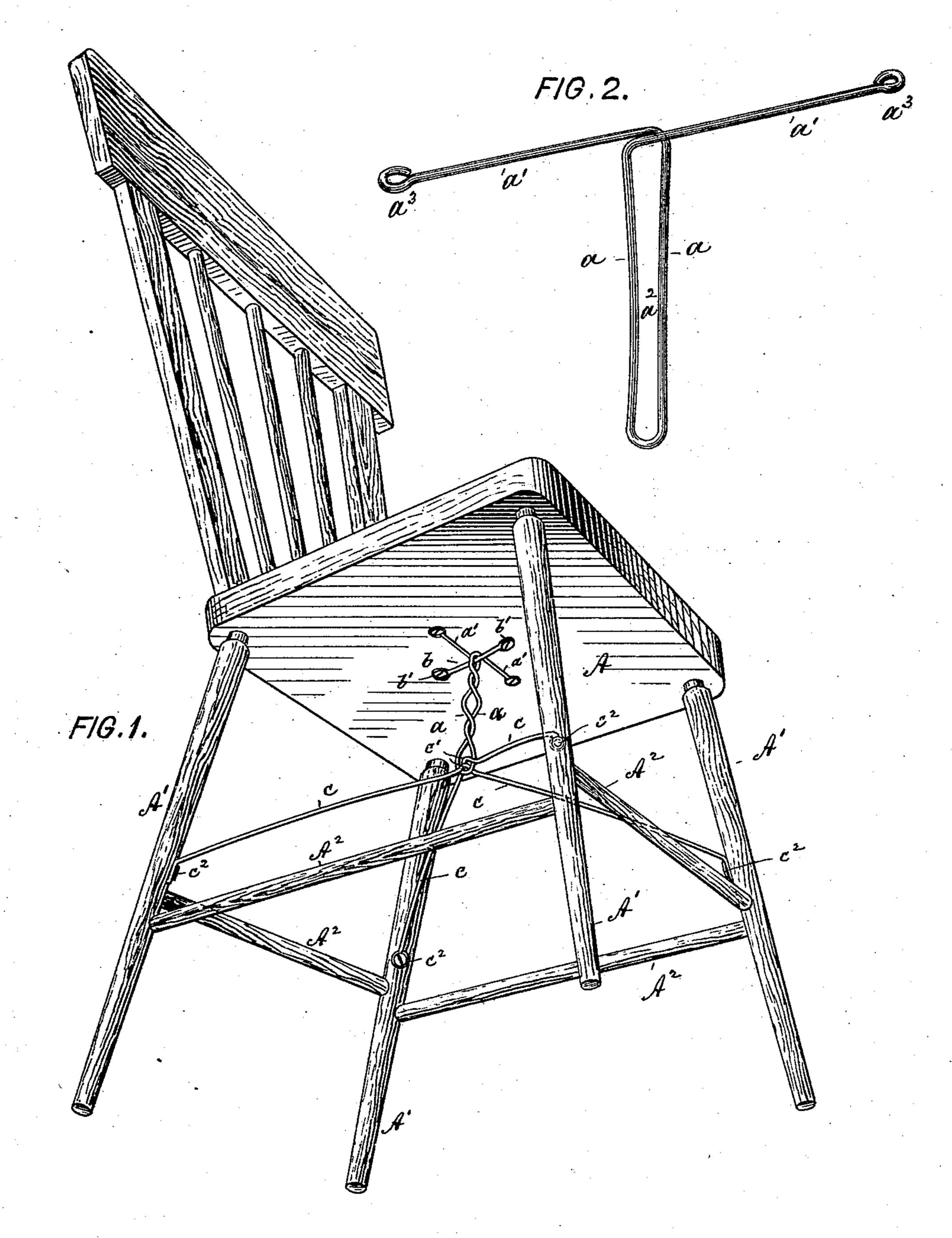
(No Model.)

J. COOPER.
CHAIR BRACE.

No. 572,409.

Patented Dec. 1, 1896.



Witnesses: John Becker. Milliam Schrib. Inventor: James Cooper by his attorneye Roeder & Briesen

United States Patent Office.

JAMES COOPER, OF NEW YORK, N. Y.

CHAIR-BRACE.

SPECIFICATION forming part of Letters Patent No. 572,409, dated December 1, 1896.

Application filed May 16, 1896. Serial No. 591,778. (No model.)

To all whom it may concern:

Be it known that I, JAMES COOPER, of New York city, New York, have invented an Improved Chair-Brace, of which the following

5 is a specification.

This invention relates to a brace more particularly designed to be attached to chairs already in use, though it may also be attached to new chairs. By means of this brace the 10 chair-legs are drawn tightly against the rounds and are firmly secured to the chairbottom, so that an intimate union of all the parts is effected and great rigidity of the structure obtained.

In the accompanying drawings, Figure 1 is a perspective view of a chair provided with my improved brace, and Fig. 2 is a detail of

the staple before being twisted.

My improved brace consists, essentially, of 20 four parts, a staple a, a cross-bar b, and a pair of stay-rods c c. The staple a when attached to the chair has the form shown in Fig. 2. Its shanks a' are bent inward, so as to cross each other and form an elongated 25 eye a^2 , which is closed at both ends. At its free end each shank terminates in a screweye a^{3} .

The cross-bar b is preferably made of extra heavy wire, and also has a screw-eye b' at 30 each of its ends. The stay-rods c are bent centrally to form an obtuse angle and are at their apex provided preferably with a small bulge c'. At their free ends each of the rods

c terminates in the screw-eye c^2 .

In use the staple a is first screwed to the lower side of the chair seat or frame A, so that it depends centrally therefrom. The crossbar b is then slipped through the upper end of the loop and is also screwed to the seat A. 40 Next the stay-rods c are slipped through the

lower end of the loop, so as to become seated at their bulge c', and the ends of each rod are screwed to diagonally-opposite chair-legs A'. The parts being thus all connected the looped or depending portion of the staple is 45 twisted upon itself, Fig. 1, by means of a small hand-lever or other tool. By this twisting operation the length of the eye a^2 is reduced and the rods c are drawn up at the center, so that they become taut and draw 50 the legs A' against the rounds A² and also against the seat Λ . During the twisting operation the cross-bar b serves as a stop that prevents the bent staple-shanks from straightening out.

My improved brace can be attached to a chair in a very few minutes, and when so attached will have converted an old and looselyjointed chair into one of great strength and rigidity, which will withstand even a greater 60 amount of rough handling than a chair which

is entirely new.

What I claim is—

1. A chair-brace composed of a staple having inwardly-bent shanks to form a closed 65 loop, a cross-bar engaged thereby, and a pair of stay-rods adapted to extend through the loop and to be secured to the chair-legs, substantially as specified.

2. The combination of a chair, with a staple 70 secured to the chair-seat, and having bent shanks and a twisted body, a cross-bar extending through the staple, and a pair of bent stay-rods that engage the staple and are secured to the chair-legs, substantially as 75

specified.

JAMES COOPER.

Witnesses:

F. v. Briesen, WILLIAM SCHULZ.