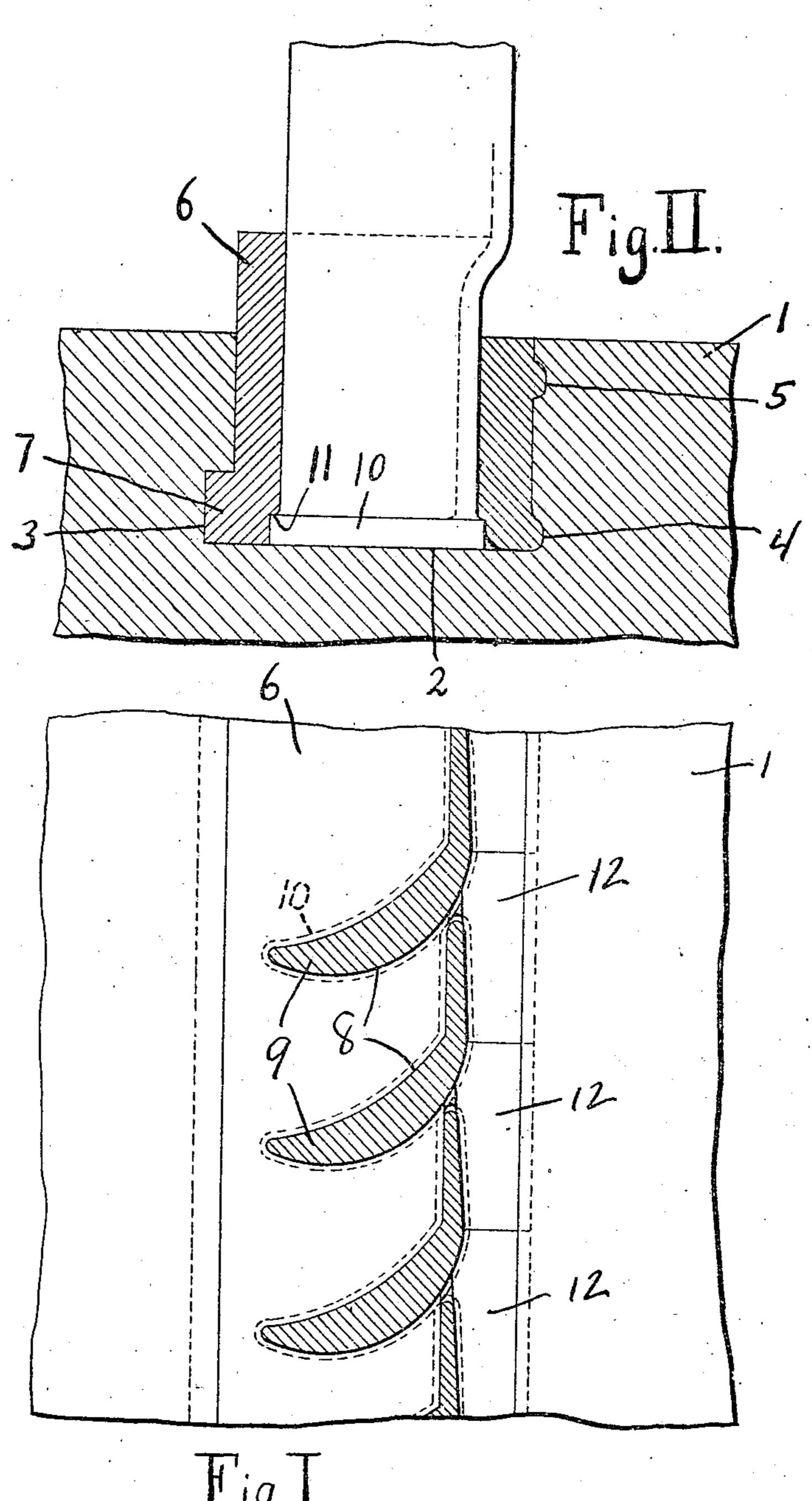
N. C. BASSETT. BLADE FASTENING.

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UNITED STATES PATENT OFFICE.

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BLADE-FASTENING

No. 875,648.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, Norman C. Bassett, a citizen of the United States, residing at Milwaukee, in the county of Milwaukee and State of Wisconsin, have invented certain new and useful Improvements in Blade-Fastenings, of which the following is a specification.

This invention relates to fastening devices suitable for fastening the blades of
fluid propelled engines, or the blades of fans
or pumps for propelling fluid, and generally it relates to a fastening means which is
capable of being used in any relation where
it is desirable to firmly secure to a member a
plurality of similarly associated elements.

The term "blade" as used in this specification and in the claims is used in the generic sense to include any equivalent ele20 ments which it might be desirable to secure to a member in a similar manner and is not intended to restrict this invention to any specific art or machine, the term "blade" being used for convenience as this invention is particularly well suited for use in the construction of steam turbines.

The purpose of this invention is to provide a simple, strong and reliable construction for the purpose described

tion for the purpose described.

On the drawings which accompany this specification and form a part thereof and on which the same reference characters are used to designate the same elements wherever they may appear in each of the several views, and which illustrate an embodiment of this invention,—Figure 1 is a plan view of a fragment of a blade-carrying member with blades secured therein, the blades being shown in section; and Fig. 2 is an elevation in section of said fragment showing a part of the blade positioned therein.

On the drawings the numeral 1 designates a blade-carrying member provided with a recess 2 which has its sides undercut,

45 as at 3, 4 and 5.

The numeral 6 designates a blade-holding member which is provided with a projection 7 adapted to be seated in the recess 3 of the blade-carrying member, said blade-holding 50 member being also provided with notches 8 within which are seated the blades 9, which blades are formed with projections 10 adapted to be received within recessed portions 11 of the blade-holding member adjacent the notches 8.

The numeral 12 represents calking pieces which are adapted to be seated within the recess 2 and hold the blade-holding member 6 and blades firmly within said recess. Each of these calking pieces, as illustrated by Fig. 60 1 of the drawing, are adapted to bear against two adjacent blades and overlie the projections thereon, and when forced home in the ordinary manner a portion of the material forming the calking piece will be 65 forced into the undercut portions 4 and 5 of a side of the recess 2, whereby the several parts will be securely locked in position.

What I claim is,—

1. The combination with a blade-carrying 70 member, provided with a recess the sides of which are undercut, of a blade-holding member, provided with notches and a projection seated in said recess with its projection engaged with a side of the recess within the un- 75 dercut portion thereof, blades, provided with projections, seated in the notches of said blade-holding member and calking pieces to secure said blades and blade-holding member within the recess of said blade carrying mem- 80 ber, each calking piece being engaged with the projections on two adjacent blades and also with the adjacent side of the recess of the blade-carrying member within the undercut portion thereof.

2. The combination with a blade-carrying member, provided with a recess the sides of which are undercut, of a blade-holding member, provided with notches and a projection, seated in said recess with its projection en- 90 gaged with a side of said recess within the undercut portion thereof, said blade-holding member being recessed adjacent to said notches, blades, provided with projections, seated in said notches with their projections 95 engaged with the blade-holding member within the recessed portions thereof and calking pieces to secure said blades and blade-holding member within the recess of said bladecarrying member, each calking piece being 100 engaged with the projections on two adjacent blades and also with the adjacent side of the recess of the blade-carrying member within the undercut portion thereof.

In testimony whereof, I affix my signature 105 in the presence of two witnesses.

NORMAN C. BASSETT.

Witnesses:

FRANK E. DENNETT, JOHN OLSEN.