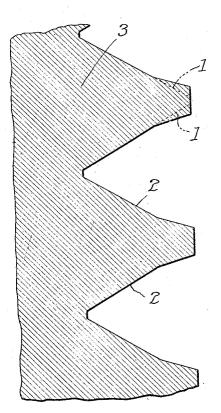
## Apr. 10, 1923

#### I. C. WOODWARD

SCREW THREAD

Filed Mar. 25,1922



Inventor Trving C. Woodward By Rummles + Commber Att

Witness Martin V. Main.

#### 1,451,484

# UNITED STATES PATENT OFFICE.

### IRVING C. WOODWARD, OF SYRACUSE, NEW YORK.

#### SCREW THREAD.

#### Application filed March 25, 1922. Serial No. 546,653.

To all whome may concerts: Be it known that I, Inving C. Woodward, a citizen of the United States of America,

- and a resident of Syracuse, county of Onon-<sup>5</sup> daga, and State of New York, have invented a new and useful Improvement in Screw Threads, of which the following is a speci-
- 10 the general class designed for the purpose pair of coacting threaded members. Several different types of threads have been pro-
- posed for this purpose, but usually depart of 15 from the normal design to such an extent as A to be impractical. It is the object of the the thread is not weakened by the present present invention to produce a reliable locking screw thread with a minimum of depar-
- 20 plished by the thread as illustrated in the thread is not affected by this improvedrawing, which shows a fragmentary view 25
- Briefly stated the invention consists in .any one of the standard forms of thread, for example, one having a sixty degree in-cluded angle, but with this angle decreased from normal near the apex of the thread.
- 30 Thus the somewhat enlarged apex of the thread serves to produce the desired frictional resistance with a coacting thread. The coacting thread may be standard throughout. To cut this type of thread re-quires taps or dies only slightly altered from those which are employed for cutting 35
- the standard thread of the same size and pitch but without the enlarged apex. The drawing shows the enlargement at the
- apex of the thread somewhat exaggerated. first day of March, 1922. The dotted lines 1 represent the form of the thread at its apex as it would appear if cut

with the standard tools for this type of thread, that is, the angle is uniform from the base to the crest of the thread. In the pres- 45 ent form of thread this angle of the sides 2 is uniform from the base 3 to about two-thirds more or less of the distance be-tween the base and the crest. The remainder fication. This invention relates to screw threads of the general class designed for the purpose of resisting accidental motion of one of a pair of coacting threaded members. Soveral tread wearing off sufficiently to allow the passage of the thread between the threads 55 of the bolt.

It may be seen from the foregoing that improvement, but is in fact made slightly stronger by having more body, and that the 60 ture from the standard design. The object of the invention is accom- from normal taps and dies. The pitch of ment since it may remain normal throughin section of a member provided with the out the threaded portion of the member in 65 mproved thread.

I claim:

1. A member having a thread cut therein, the angle formed by the sides of the thread being uniform from the base outwardly to 70 a point near the crest of the thread, from which point the angle decreases to the apex of the thread.

2. A member having a standard V form of thread, but having an enlargement near 75 the apex of the thread.

3. A member provided with a thread, the included angle of which is less near the apex of the thread than throughout the main body portion thereof. 80

Signed at Syracuse, N. Y., this twenty-

#### IRVING C. WOODWARD.