

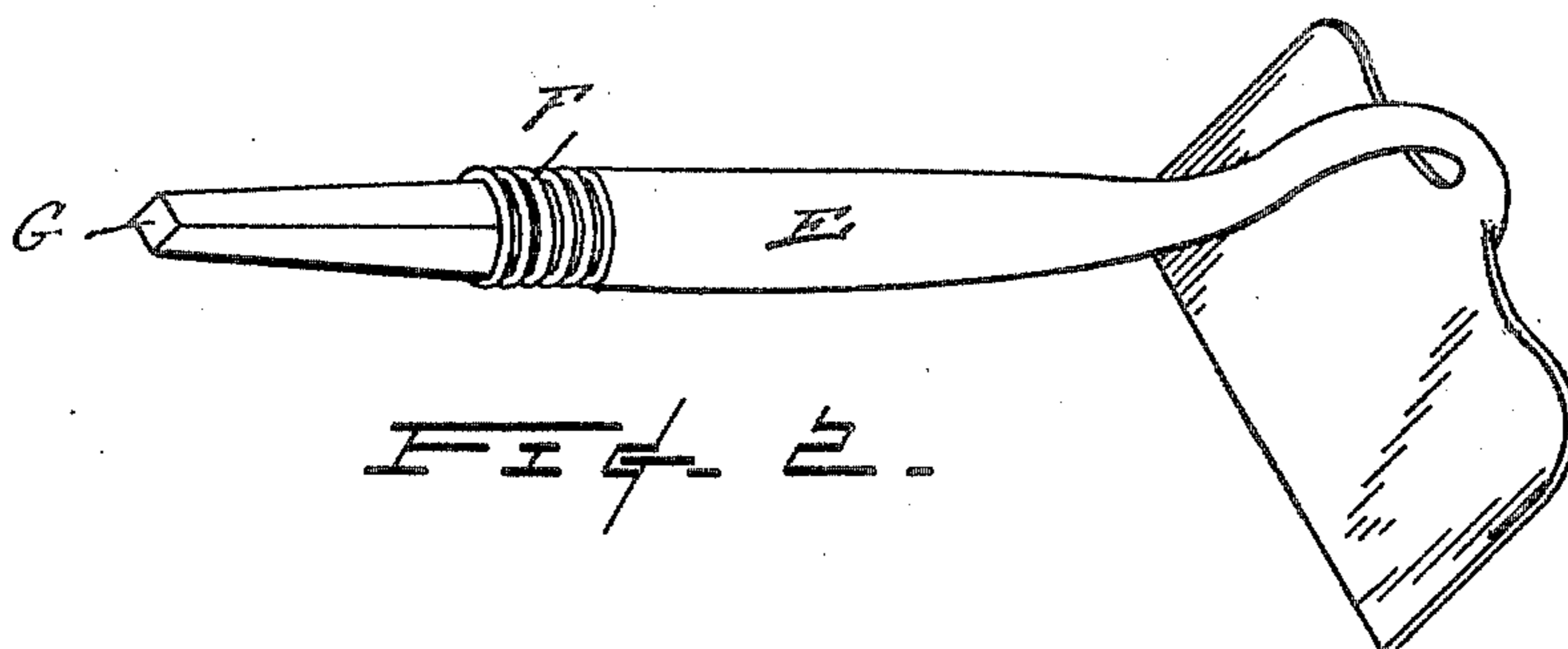
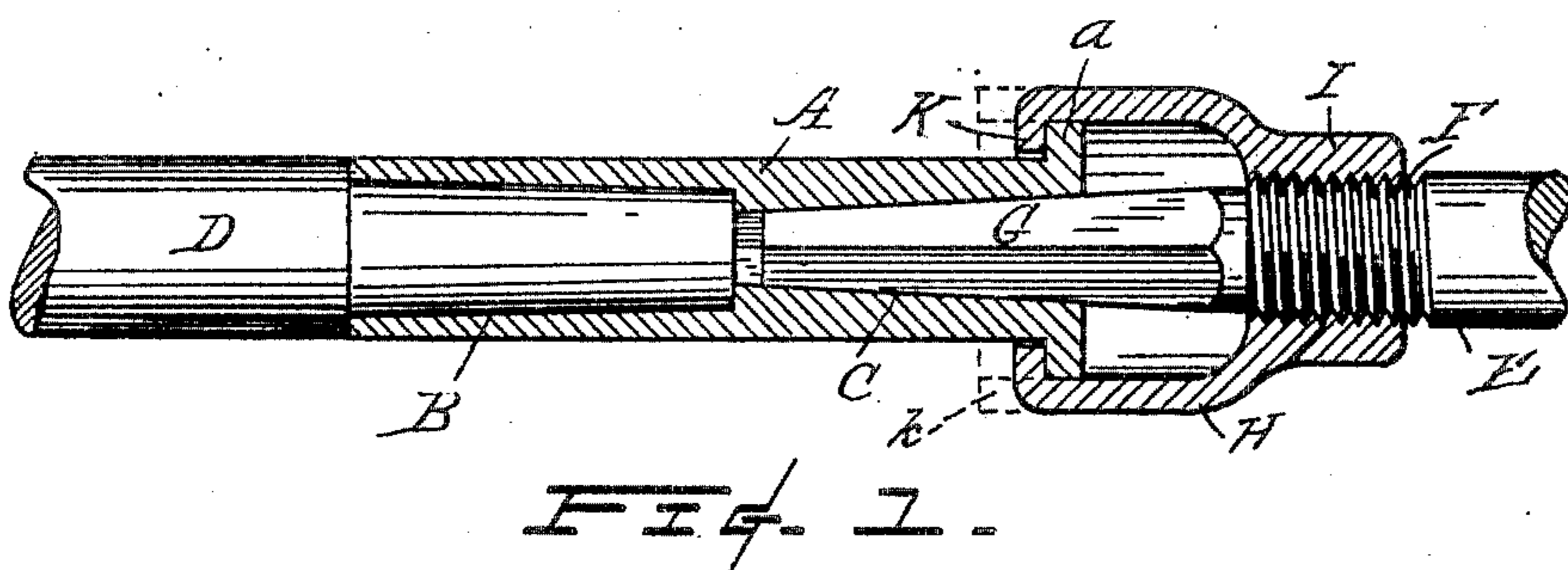
No. 797,638.

PATENTED AUG. 22, 1905.

J. L. THOMAS.

DETACHABLE HANDLE FOR IMPLEMENTS.

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WITNESSES:

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DETACHABLE HANDLE FOR IMPLEMENTS.

No. 797,638.

Specification of Letters Patent.

Patented Aug. 22, 1905.

Application filed March 1, 1905. Serial No. 247,897.

To all whom it may concern:

Be it known that I, JAMES L. THOMAS, a citizen of the United States, residing at Winlock, in the county of Lewis and State of Washington, have invented certain new and useful Improvements in Detachable Handles for Implements, of which the following is a specification, reference being had therein to the accompanying drawings.

The object of the invention is to provide improved and efficient means for detachably and interchangeably securing an implement to its handle.

The invention consists of the novel features and parts and combinations thereof, as will be hereinafter explained, and pointed out in the claims.

An embodiment of my invention is represented in the accompanying drawings, in which—

Figure 1 is a longitudinal view of the adjoining ends of a handle and tool with the coupling members shown in section, and Fig. 2 is a perspective view of a garden implement shown detached from its handle and constructed in accordance with the invention.

The reference-letter A designates a ferrule, which is provided at one end with an external peripheral collar *a* and having sockets B and C extending axially therein from opposite ends. The socket B is of suitable shape to receive the end of a handle-stick D, while the other socket is formed polygonal in cross-section and tapering longitudinally.

E designates a tool-shank, which is provided intermediate its length with screw-threads F, from which projects a tang G of corresponding shape to the socket C.

H is a sleeve-coupling, which is constructed with an internally-screw-threaded or nut end I, adapted to register with the screw portion of the shank and having at the opposite end an inwardly-directed flange K, which is engaged over the said ferrule-collar, as shown.

In constructing the device the coupling part H is preferably made without the flange or having the metal rim extend uninterruptedly in a longitudinal direction, as indicated by broken lines *h* in Fig. 1, and which is afterward turned inwardly to form the afore-described flange. The tool is connected to the handle by first inserting the end of the tang into the socket therefor, when by engag-

ing the nut portion of the sleeve with the threaded portion of the shank and properly turning the former the tang will be caused to be further drawn into and firmly seated in the socket. A reverse turning of the sleeve will unscrew the same from its engagement with the tool and permit the latter's being removed from the handle.

The advantages of the invention reside, first, in a single handle being available for individual use with any number of tools; second, in the interfitting of the tool-handle with its socket in such manner as to insure a rigid seating and yet permit of their ready disconnection, and, third, in the peculiar and reliable means of causing the tool-tang to be drawn into and firmly retained in its socket.

The device is of inexpensive construction and useful in a great number of applications. For example, a single handle provided with my invention could be employed with a number of garden implements, such as rakes, hoes, shovels, hay-forks, &c.

Having described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. As a new article of manufacture, an implement comprising a handle, a ferrule for the handle, said ferrule provided with an internal socket and an external collar, a tool provided with a shank having screw-threads thereon and a terminal tang adapted to fit in said socket, and a coupling member provided at one end with an internal screw-thread adapted to engage with that of the tool-shank and with an inwardly-directed marginal flange adapted to be engaged by said collar.

2. In a device of the character described, the combination with a tool having a screw-thread upon its shank and a terminal tapering tang, of a ferrule provided with a tapering socket for the said tang and an external collar, and a coupling-sleeve having an internal screw adapted to register with the said screw-thread of the shank and a flange adapted to engage with the said collar, substantially as described.

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

JAMES L. THOMAS.

Witnesses:

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