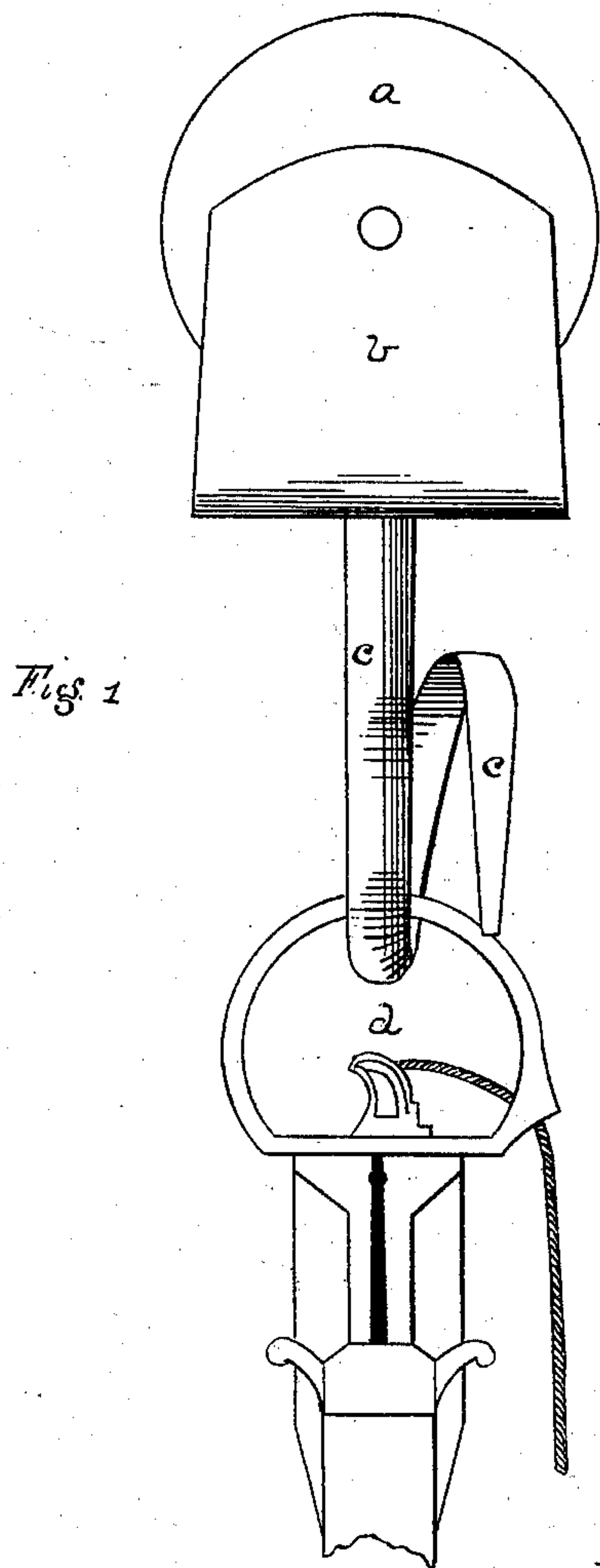


A. J. NELLIS.
Hay-Fork Pulleys.

No. 152,672.

Patented June 30, 1874.



WITNESSES

James E. Kay
Frederick Stancish

INVENTOR

Aaron J. Nellis
by Bakewell & Son
Attorneys

UNITED STATES PATENT OFFICE.

AARON J. NELLIS, OF PITTSBURG, PENNSYLVANIA.

IMPROVEMENT IN HAY-FORK PULLEYS.

Specification forming part of Letters Patent No. **152,672**, dated June 30, 1874; application filed May 16, 1874.

To all whom it may concern:

Be it known that I, AARON J. NELLIS, of Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented a new and useful Improvement in Hay-Fork Pulleys; and I do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawing forming a part of this specification, and illustrating my invention.

My invention relates to the fork-pulleys used with stackers and hoister-ropes in handling hay by means of horse hay-forks; and it consists in combining with the pulley a device for attaching the fork to the pulley, said device being in the form of a coil or spiral, or an equivalent shape, which shall admit readily of the attaching and detaching of the device, and at the same time prevent accidental separation of the fork from the pulley. Heretofore the common method of attaching the fork to its pulley has been by simply tying the two together by ropes or cords. The disadvantages of such a connection are obvious.

In the drawing, *a* represents the wheel of the pulley, and *b* the casing; *c*, my improved device for attaching the fork to the pulley. The wheel may be of either wood or metal, as is desirable. Preferably the casing is made from wrought-iron. From the center of the casing projects said device *c*, which, in the drawing, is represented as coiled or spiral; but it is evident another form may be adopted, provided the end to be attained is kept in view, namely, such a construction of this attaching device that the fork, when once passed within the device, shall not be liable, either when weighted or slack, to escape from the

coil. The ring of the upper portion of a hay-fork is shown at *d*.

When it is desired to attach the fork to the pulley, the ring of the fork is passed within the coil in the same manner and by the same motions that a key would be placed upon the usual split ring—namely, by passing it around the spiral.

It is evident, from the coiled shape of the attaching device, that the ring of the fork is not liable to escape from within the circle, no matter what position the fork may occupy.

The advantages of my invention—namely, the providing an attaching device connected to the pulley—are that, first, the use of cords and other separate devices for tying the fork is avoided; the liability of the fork and pulley to work loose is also avoided; the two are readily connected and disconnected when it is desired to use them, and it is impossible for the fork to become disconnected whatever position it may occupy, in addition to which the connection between the pulley and fork is a loose connection, which enables the fork to be moved readily in any direction, and to take any position in relation to its ropes and pulleys that is required by its location.

Having thus described my invention, I claim—

A horse-hay-fork pulley having the housing *a* and connecting device *c*, for attaching the fork, substantially as specified.

In testimony whereof I, the said AARON J. NELLIS, have hereunto set my hand.

AARON J. NELLIS.

Witnesses:

LOUIS HAGER,
JAMES I. KAY.