W. F. RUNDELL.

Hay-Fork.

No. 47,042. Patented Mar. 28, 1865.

Fig. 1

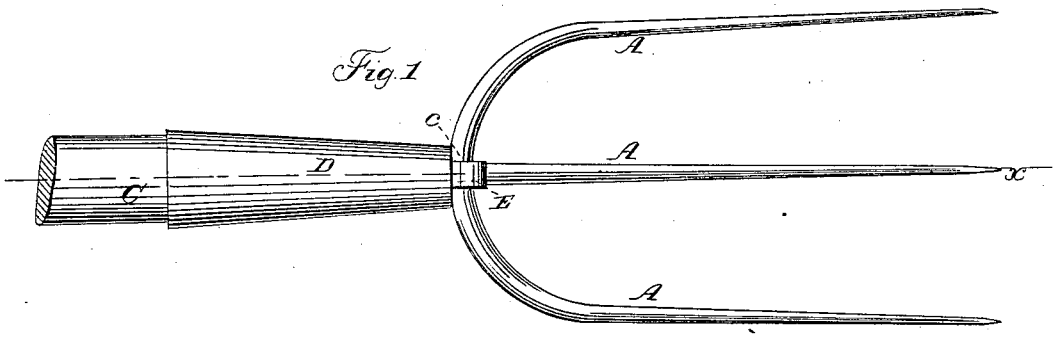


Fig 2

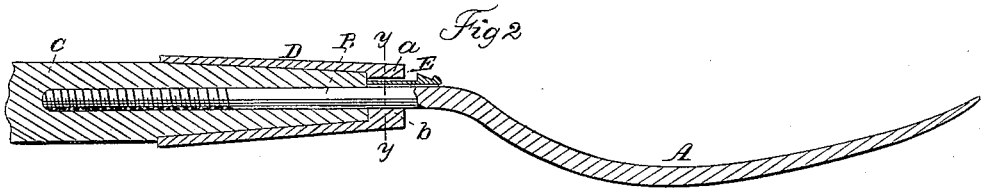


Fig 3

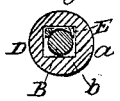
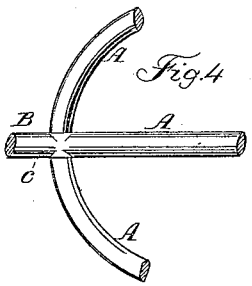


Fig 4



Witnesses.
Theo Tusch
Wm Trewin

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Attys

UNITED STATES PATENT OFFICE.

WILLIAM F. RUNDELL, OF GENOA, NEW YORK.

IMPROVEMENT IN HAY-FORKS.

Specification forming part of Letters Patent No. **47,012**, dated March 28, 1865.

To all whom it may concern:

Be it known that I, WILLIAM F. RUNDELL, of Genoa, in the county of Cayuga and State of New York, have invented a new and Improved Hay-Fork; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a front or face view of my invention; Fig. 2, a longitudinal section of the same, taken in the line *x x*, Fig. 1; Fig. 3, a transverse section of the same, taken in the line *y y*, Fig. 2; Fig. 4, a detached front or face view of the inner portion of the fork.

Similar letters of reference indicate like parts.

This invention relates to a new and improved manner of securing the fork to the handle or "stale," as it is frequently termed, whereby the fork may be firmly secured to the handle or stale, and the latter not weakened, but rendered sufficiently strong just where the strength is required—to-wit, at the junction of the fork and handle.

A A A represent the three tines of a fork, the central one of which is prolonged and projects beyond the base or inner end of the fork sufficiently far to form a tang, B, as shown in Fig. 2. This tang B has a screw, *a*, cut upon it, so that it may be screwed into a hole made longitudinally into the end of the handle or stale C.

D is a ferrule which is fitted on the end of the handle C, where the tang B is screwed into it. This ferrule is of conical form, and its outer and smaller end, *a*, does not fit over the handle, but projects beyond it, and is thicker than the other portion, so as to have a requisite degree of strength, a square hole, *b*, being made through *a* to admit of the tang B passing through it. This ferrule is fitted on the handle without a shoulder.

E is a key or wedge, which is driven in the square hole *b* at the front side of the tang B, and fits in a notch, *c*, in the latter. This key prevents the tang from turning in the handle, the square hole *b* in the outer part of the ferrule preventing the tang from turning in it.

Thus by this simple means the fork is not only firmly secured to the handle, but a very strong attachment attained, neither the handle nor the fork being liable to break or give way at their junction. At the same time the fork may be secured to the handle with the greatest facility.

I claim as new and desire to secure by Letters Patent—

The ferrule D, fitted on the handle C, and provided with an end, *a*, which projects beyond the end of the handle and has a square hole, *b*, made in it, in connection with the key or wedge E and screw on the tang B of the fork, all arranged substantially as and for the purpose specified.

WILLIAM F. RUNDELL.

Witnesses:

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