

S. A. SUMMERS.

Improvement in Hame-Tugs for Harness.

No. 130,955.

Patented Aug. 27, 1872.

Fig. 1.

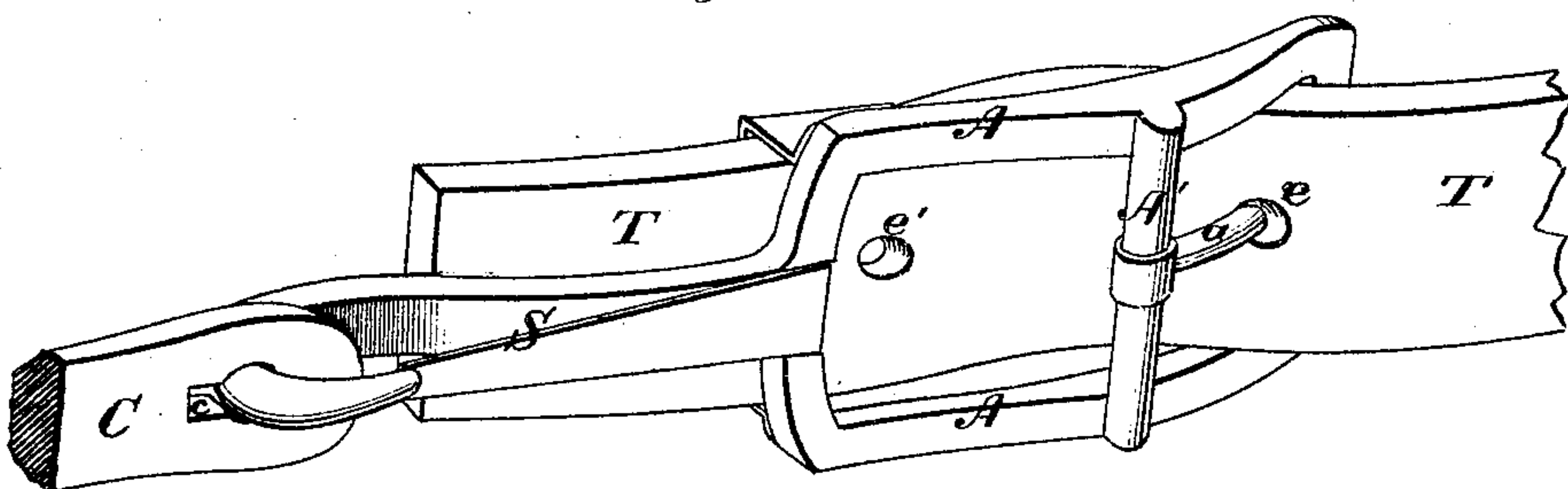


Fig. 2.

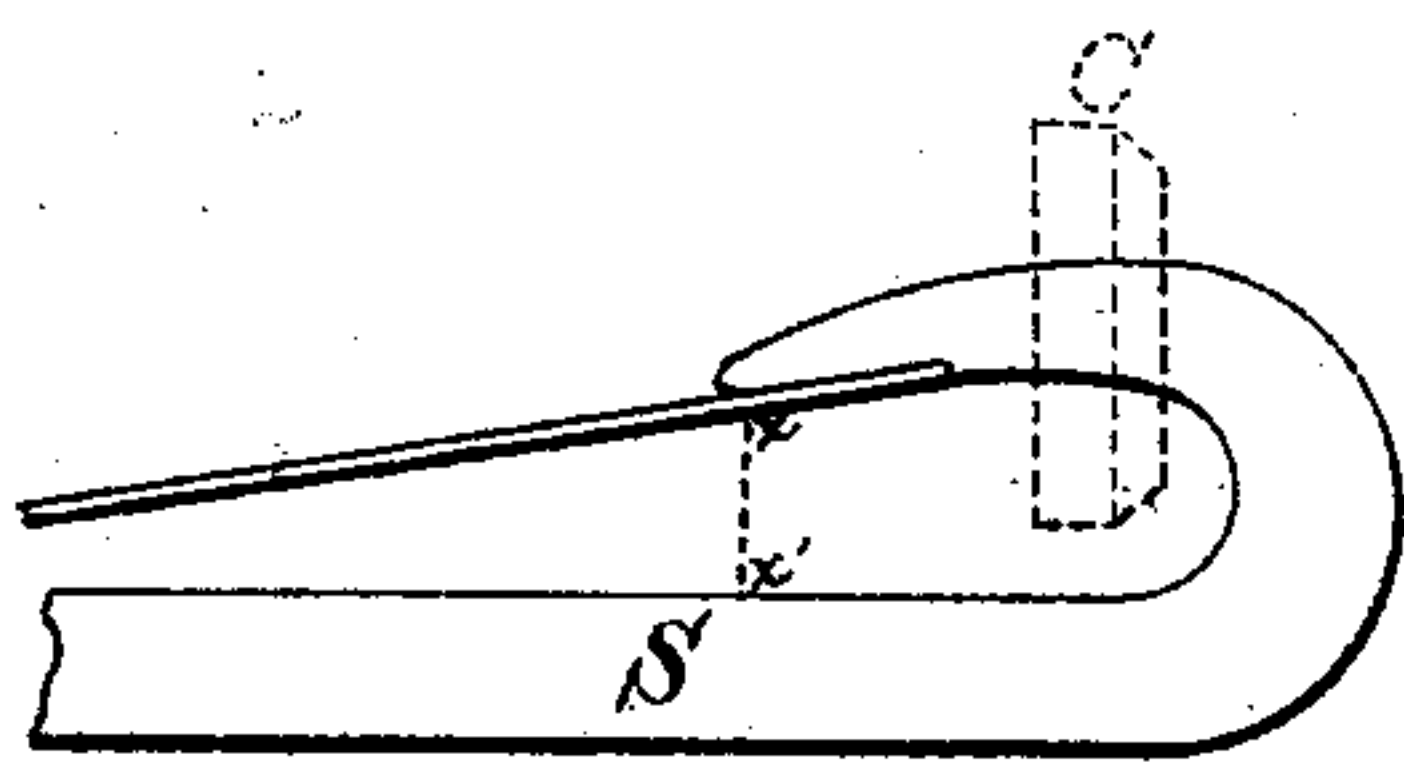
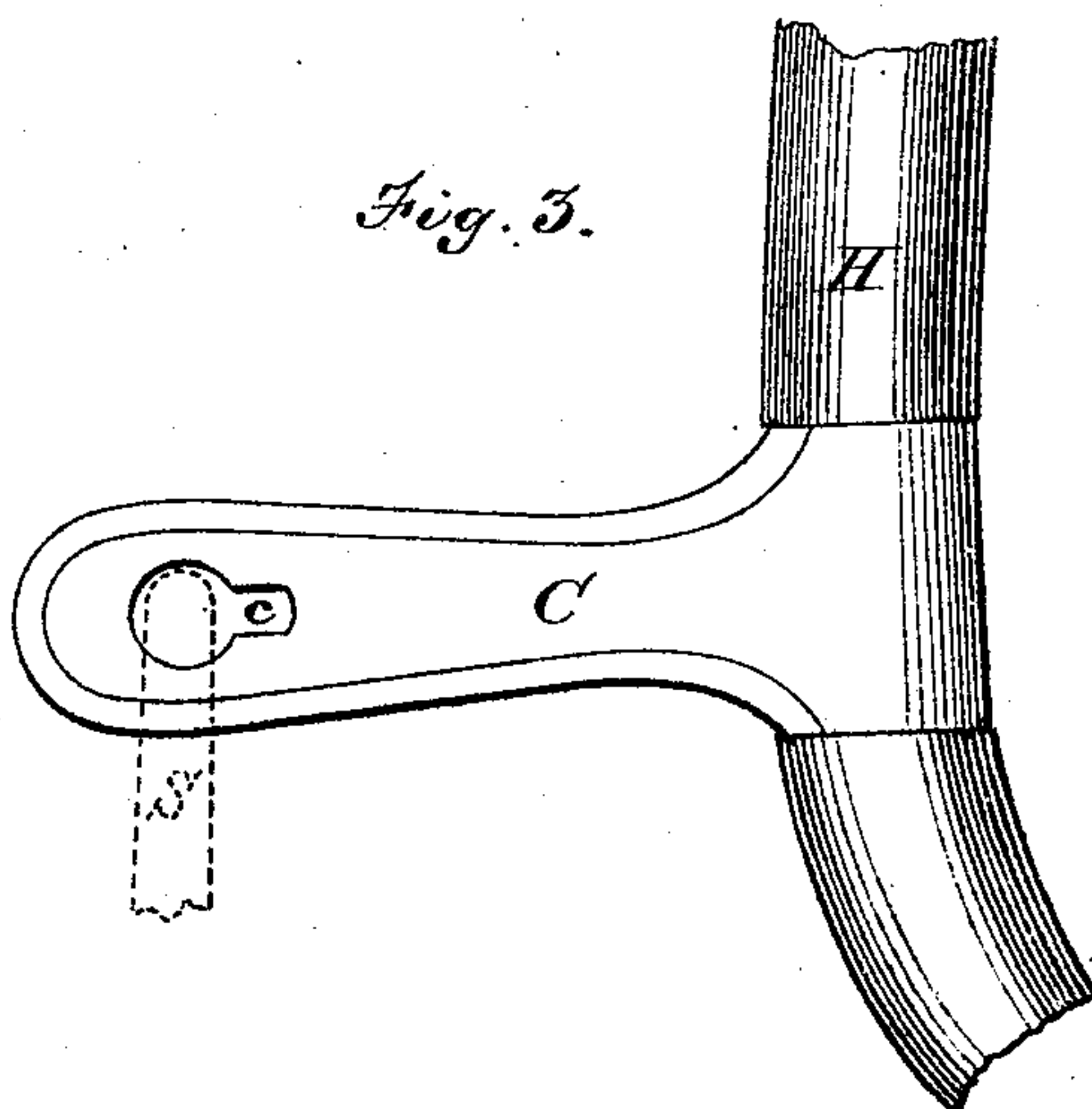


Fig. 3.



Witnesses.
C. F. Perry
Nathan & Ellsworth.

Inventor,
Samuel A. Summers
by his Attys,
Nathan & Ellsworth.

UNITED STATES PATENT OFFICE.

SAMUEL A. SUMMERS, OF TRAPPE, MARYLAND, ASSIGNOR OF ONE-HALF HIS RIGHT TO MARCELLUS FLETCHER AND WILLIAM T. H. SEYMOUR, OF SAME PLACE.

IMPROVEMENT IN HAME-TUGS FOR HARNESS.

Specification forming part of Letters Patent No. 130,955, dated August 27, 1872.

To all whom it may concern:

Be it known that I, SAMUEL A. SUMMERS, of Trappe, in the county of Talbot and State of Maryland, have invented a new and useful Improvement in Hame-Tug for Harnesses; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawing forming part of this specification, in which—

Figure 1 is a perspective view; Fig. 2, a detached view of the hook; and Fig. 3, a detached view of the hame.

Similar letters of reference in the accompanying drawing indicate the same parts.

The object of this invention is to provide for public use a hame-tug and trace-connection for harnesses, which will be easily adjustable and less liable to casual disconnection than heretofore; and to this end the invention consists in attaching the trace to the hame by means of an adjustable buckle combined with a snap-hook, which can be engaged with and disengaged from the hame only by turning it to a transverse position relatively thereto, substantially as I will now proceed to describe.

In the drawing, T is the trace; H, the hame; and C, the iron plate attached to the hame for the purpose of securing the trace thereto, and provided with an eye, *c*, to engage with the combined buckle and hook hereinafter described. The latter consists of an oblong frame, A, having a cross-bar, A', provided with a tongue, *a*, and also having a snap-hook, S, at the extremity opposite to that at which the tongue works, as shown in Fig. 1. In constructing the plate C the eye *c* is so placed that the distance from it to the end of the plate is greater than the distance to either side of the plate.

In constructing the snap-hook the end of the hook is bent over so far that the space between it and the body of the hook at *x x* will allow the end of the hook to enter or leave the eye *c*, when the hook is in a position transverse to the plate C, as shown by the dotted lines in Figs. 2, 3, but not when it is in any other position.

The trace is adjusted to the proper length by inserting the tongue *a* in the proper hole *e*, and then is connected to the hame by bringing the hook around to the position shown in Figs. 2 and 3, hooking the part S into the eye *c*, and then straightening it out, as shown in Fig. 1; and it is disengaged by reversing these operations, as will be readily understood.

The trace cannot become disconnected from the hame when in any other position, and therefore all danger of accidental disconnection is entirely obviated.

The adjustment of the trace is very easily effected, and the attachment to the hame by means of the snap-hook, or its detachment from the hame, is but the work of an instant. The whole device is simple and inexpensive in construction, and very convenient and effective in operation.

Having thus described my invention, what I claim is—

The combination of the hame-plate C having an eccentric eye, *c*, as described, with the buckle and hook connecting device, having the hook and eye constructed to engage and disengage only in a transverse position, substantially as and for the purposes herein set forth.

SAMUEL A. SUMMERS.

Witnesses:

NATHAN K. ELLSWORTH,
MELVILLE CHURCH.