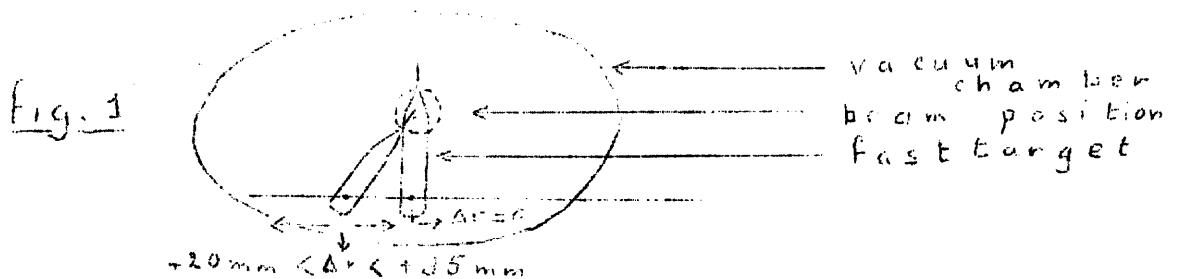


FAST TARGET OPERATION

A fast target has been made for getting very short ( $\sim 250 \mu\text{s}$ ) low intensity secondary particle bursts, especially for bubble chamber experiments.

The mode of operation is simple (See Fig. 1) :

- a) for a relatively high number of secondary particles, let flip the target through the beam at  $\Delta r = 0$ ; the delay time of the burst from the first pulse is about 9 ms; trigger - as requested by user.
- b) if the intensity of the burst is still too high, a radial displacement of the target at a position between  $+20 \text{ mm} < \Delta r < +35 \text{ mm}$  diminishes the intensity of secondary particles (e.g. in the bubble chamber region) down to 2 or 3.



The burstlength can be changed between  $200 \mu\text{s} - 700 \mu\text{s}$  with the knob "target acceleration". In most cases, this short burst will be used in connection with long counter bursts (See Fig. 2) for which instructions already exist (PS/Int./MG/VA 60-10). The drive unit for the fast flipper is indicated "fast target".

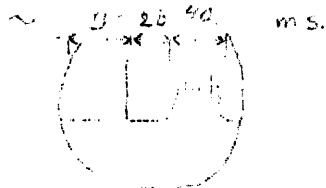


Fig. 2: scope trace of short + long burst

W. RICHTER  
TH. SLUYTERS.

Distribution : (open)

All E.I.C.  
All C.R.O.

/sd

PS/1814