

In order to make shrapnel more effective, especially when used against hostile aircraft, Edward Dartford Holmes of Huddersfield, England, has invented the multiple-charge shrapnel shell shown in the second illustration. Briefly, his scheme calls for a shrapnel shell containing a number of compartments which are each exploded in turn at predetermined intervals. And in order that the gunners may follow the progress of the explosion, each chamber is filled with a charge which will emit a different colored smoke. Two types are shown, one with the time fuse in the base, arranged to explode base-charge first and nose-charge last, and the other where the fuse is in the nose and connects with the separate charges by means of a long tube filled with a priming composition.

SCIENTIFIC AMERICAN

December 22, 1917 p. 480

OldMagazineArticles.com