

MECHANICAL COMMAND TO ARM FUZE

ABSTRACT OF THE DISCLOSURE

A mechanical safe and arm device for rotating munitions reduces arming scatter so that the "no arm" and "all arm" distance are substantially the same. A first spring holds a flywheel, a pinion gear, and a drive gear against rotation until centrifugal forces cause the spring to release them. The drive gear then rotates, causing rotation of the pinion gear and the flywheel. A post depending from the flywheel strikes and unlocks a second spring that unlocks a pivotally-mounted rotor that carries a detonator. The rotor then pivots and brings the detonator into alignment with a firing pin.

FIG. 2