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(54) Title: COMBUSTIBLE CONTAINERS MANUFACTURED USING REACTIVE INJECTION MOLDING OF AZIDO POLY-
MERS

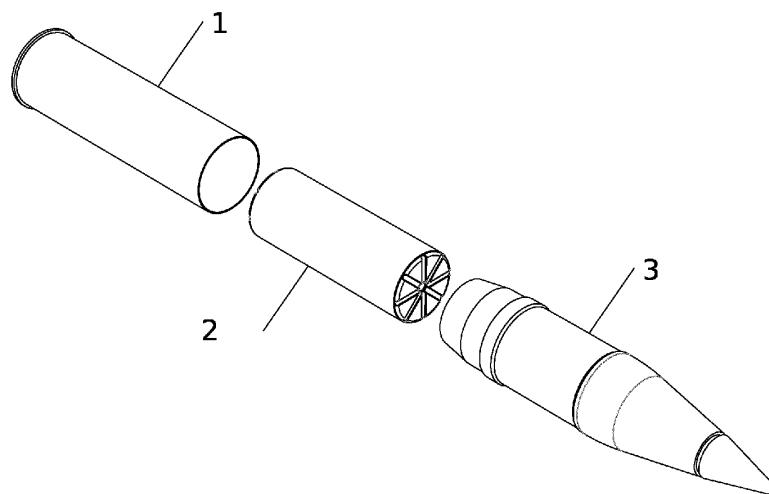


FIG. 1

(57) Abstract: Small-, medium-, and large-caliber combustible cartridge cases and propellant combustible containers that are manu-
factured using reactive injection molding of azido polymers. An injection process for a single propellant combustible charge including
the steps of: providing a quantity of azido bearing polymer; providing a quantity of curing agent; optionally providing a quantity of
chemical blowing agent; optionally providing a quantity of fibers; optionally providing a quantity of additives and catalysts; and pro-
viding a mold defining a male cavity, a female cavity, and an injection port. The injection process further includes mixing together the
azido bearing polymer, the curing agent, the optional chemical blowing agent, the optional fibers, the optional additives and catalysts,
and injecting the resulting mixture into the mold.

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