APPENDIX F: STOVE DESIGN COMPETITION
F.1. CONCEPT ONE
CAST AND MACHINING COMPONENTS TO MAKE UP THE BODY AND FRAME ASSEMBLY.

KEY ASSEMBLY:
- FIRE LITE HEATING CUP
- CLEVER PROPEL
- BRASS CAST ENDS
- BURNER TO BE SOLDERED WITH BONDER
- BURNER NOZZLE (DIAMETER 0.4 mm TO 0.6 mm)
- SMALL CAST IRON FRAME WITH BONDER LUBRICANT

TYPICAL NOZZLE DESIGN:
- TAPERED TOP WITH 0.4 - 0.6 mm GROUND
- TAPERED INTERNAL SEAL
- CIRCULAR HOLE
- THREADED TO SEAL

BOLT HEAD:
- NEEDS SERRATED SOCKET
- ACCESS FROM TOP AND SIDE
- ACCESS FROM SIDE

HEX HEAD:
- MAY BE USED TO DETACH NOZZLE FROM BORE WITH STANDARD ALUMINIUM 3/8 X 3/4, 5/8 X 1/2, 7/8 X 3/4 SOCKETS

PHILLIPS HEAD:
- NEED TO SUPPLY THIS

CROSS CUT HEAD:
- USES STANDARD DRIVER
- NOZZLE IN CENTRE OF SLOT

SPECIAL TOOL HEAD:
- NEED TO SUPPLY THIS

PL. AS PART OF PRODUC BRASS BORE E.G. FLAME AUGMENTOR.
F.2. CONCEPT TWO
F.3. CONCEPT THREE
F.4. SAFETY FUEL BOTTLE

UNIT IS SUPPLIED WITH THE BOTTLE

BOTTLES ARE CLEARLY MARKED FOR FILLING LEVEL. PREPARE BOTTLES AT ONCE TO PREVENT DAMAGE.

PUMP VALVE IS COVERED AND PROTECTED TO PREVENT DAMAGE.

PRESSURE FEED VALVE IS COVERED AND PROTECTED TO PREVENT DAMAGE.

"S" SHAPE PROTECTION ON BOTTLE FOR FILLING.

CLEAR MARKINGS ON BOTTLE FOR FILLING.

BOTTLE SEMI-TRANSPARENT TO BE ABLE TO QUICKLY SEE LEVEL.

BOTTLE CANNOT BE REFILLED WITHOUT TURNING OFF SYSTEM OR RELIEVING PRESSURE IN TANK.
F.5. WORKING PROTOTYPE