



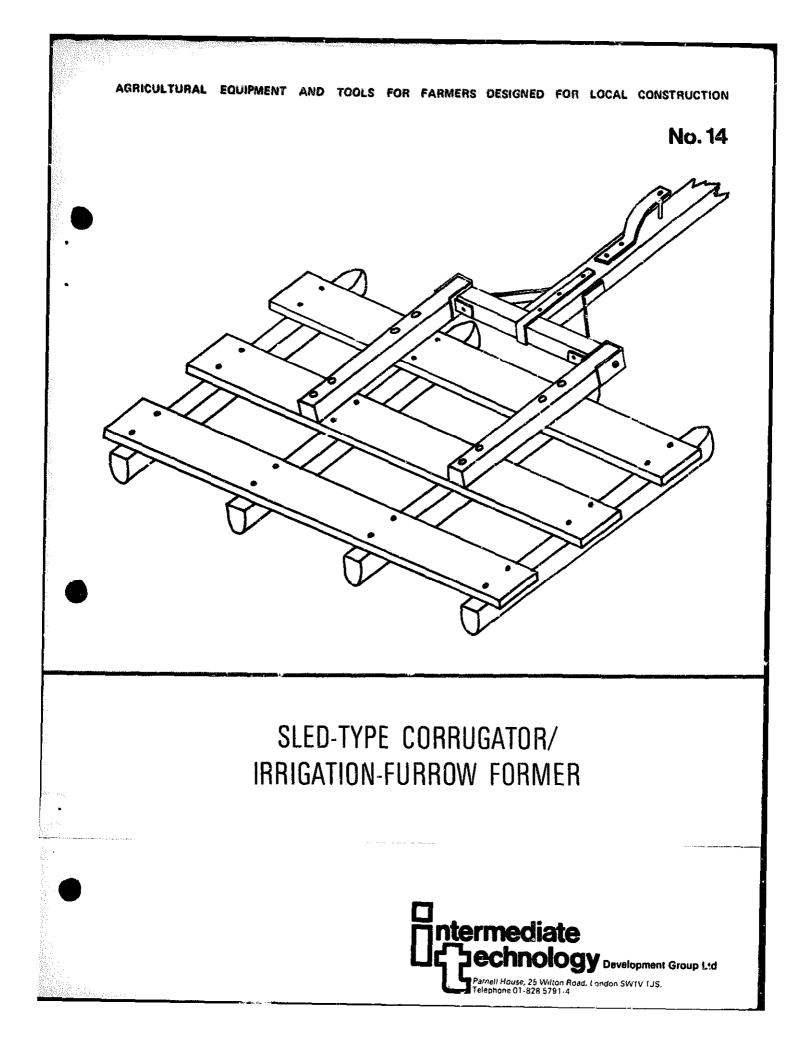
<u>Sled-Type Corrugator/Irrigation-Furrow Former</u> ITDG Agricultural Equipment and Tools No. 14

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SLED-TYPE CORRUGATOR/IRRIGATION-FURROW FORMER

SOURCE: United States Department of Agriculture, Soil Conservation Service.

<u>DESCRIPTION</u>: The function of this implement is to make small furrows, or corrugations, for distributing water over a field.

The corrugations are run down the slope of the land. This implement can be used after the field has been broadcast seeded or before row-crop planting.

For maximum water carrying capacity, the inside surfaces of the corrugations should be compressed and smooth. To achieve this, ballast can be added to the implement as required.

The spacing of the corrugations will depend open how rapidly the the water moves laterally through the soil. The lighter the soil texture, the wider apart the corrugations can be.

The implement design shown can be modified in size to suit animal-draught or tractor-hitching as required.

Note: The figures in brackets are in millimetres.

KEY:

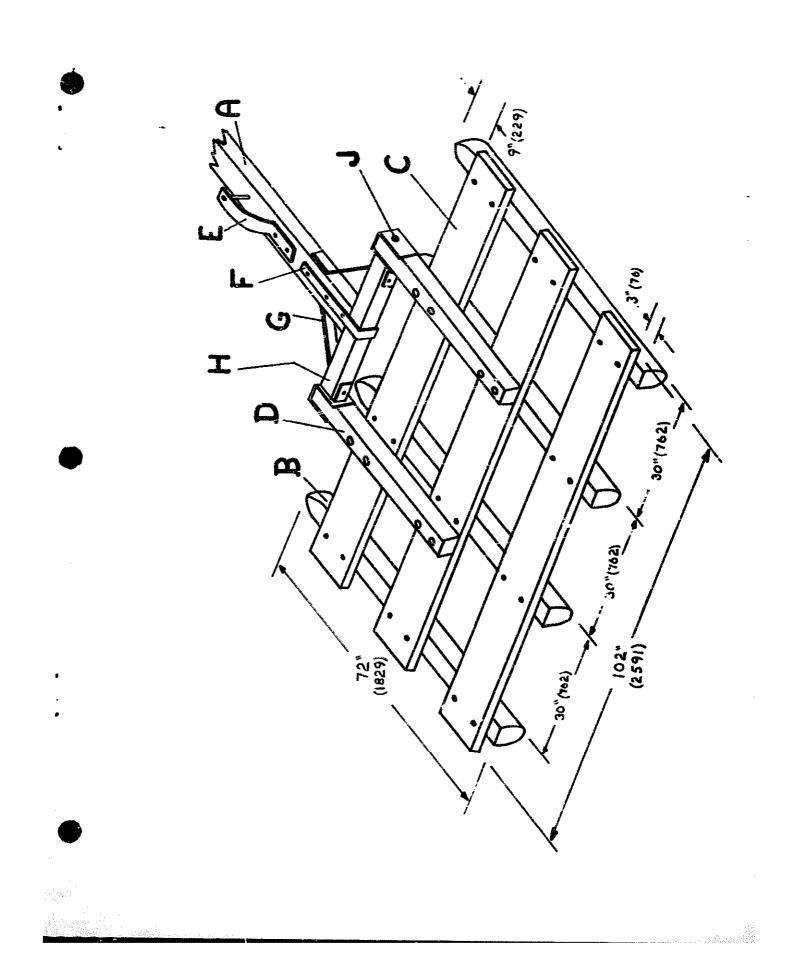
ITEM		QUANTITY	ITEM DESCRIPTION
A	DRAUGHT SHAFT	1	4" x 6" (102 x 152) wooden beam of desired length.
B	RUNNERS	4	4" x 6" (102 x 152) hard wood, 72 " (1829) long. Steel points can be fitted to the leading ends.
C	CROSS BOARDS	3	2" x 12" x 102" (51 x 305 x 2591) wooden board.
D	SHAFT CONNECTOR	5	4" x 4" x 48" (102 x 102 x 1219) wood, leading end reinforced with ‡" x 4" x 16" (6.3 x 102 x 406) strap iron.
E	CLEVIS	1	$\frac{1}{4}$ " x $2\frac{1}{2}$ " x 12 " (6.3 x 63 x 305) strap iron.
F	SHAFT STRAP	1	4" x 12" x 36" (6.3 x 38 x 914) strap iron.
G	SHAFT BRACE	2	4" x 2" x 36" (6.3 x 51 x 914) strap iron.
H	CROSS FIECE	1.	4" x 4" x 3^{4} " (102 x 102 x 864) wooden beam, reinforced with $\frac{1}{2}$ " x 4" x 16 " (6.3. x 102 x 406) strap iron at each end.

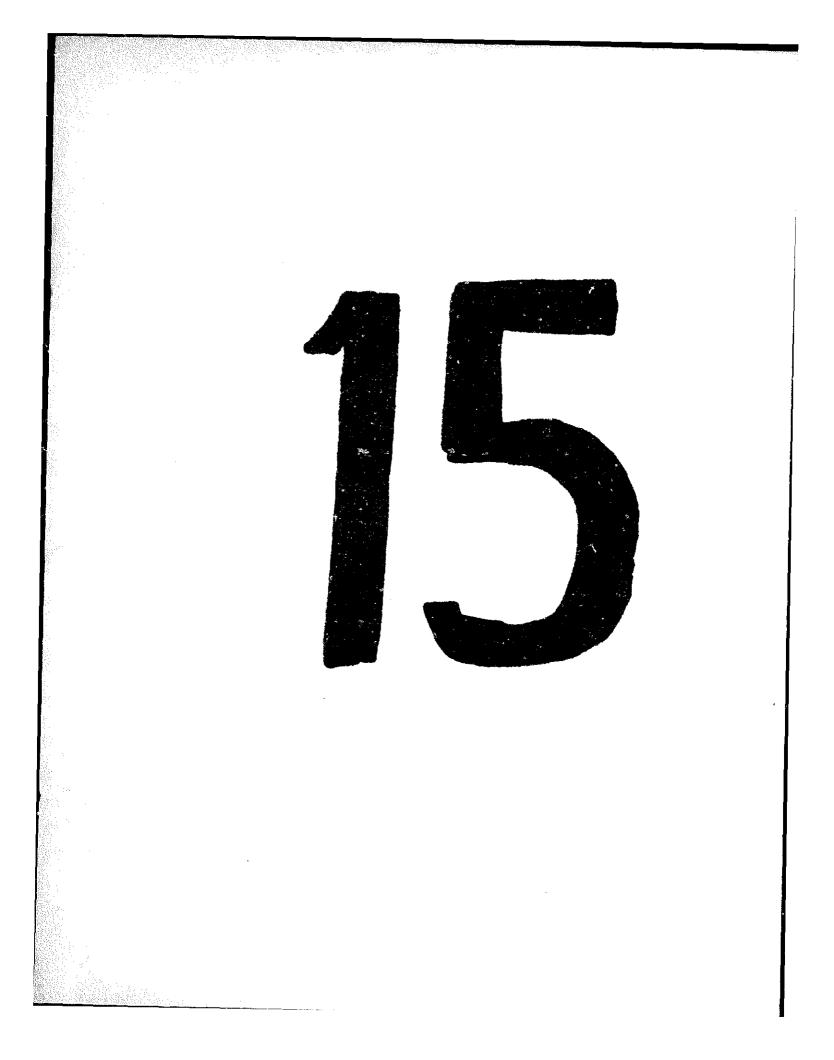
J PROSS PIECE SCREWS 2 3" (16) diameter steel screw, 12" (305) long.

• E =

BOLTS AND SCREWS

QUANTITY	SIZE	J#JRPOSE
1	‡" x 8" (19 x 203)	Mr astaching 'mimal-draught' doubletree to clevis.
2	<mark>≩</mark> " x 6" (9.5 x 152)	Clavis to draught shaft.
´ 7	² " x 6" (12.5 x 152)	Shaft to cross piece.
8	³ 8" x 8" (9.5 x 203)	Shaft connectors the gross boards.
24	5/16" x 8" (8 x 203)	Gross boards to runners.







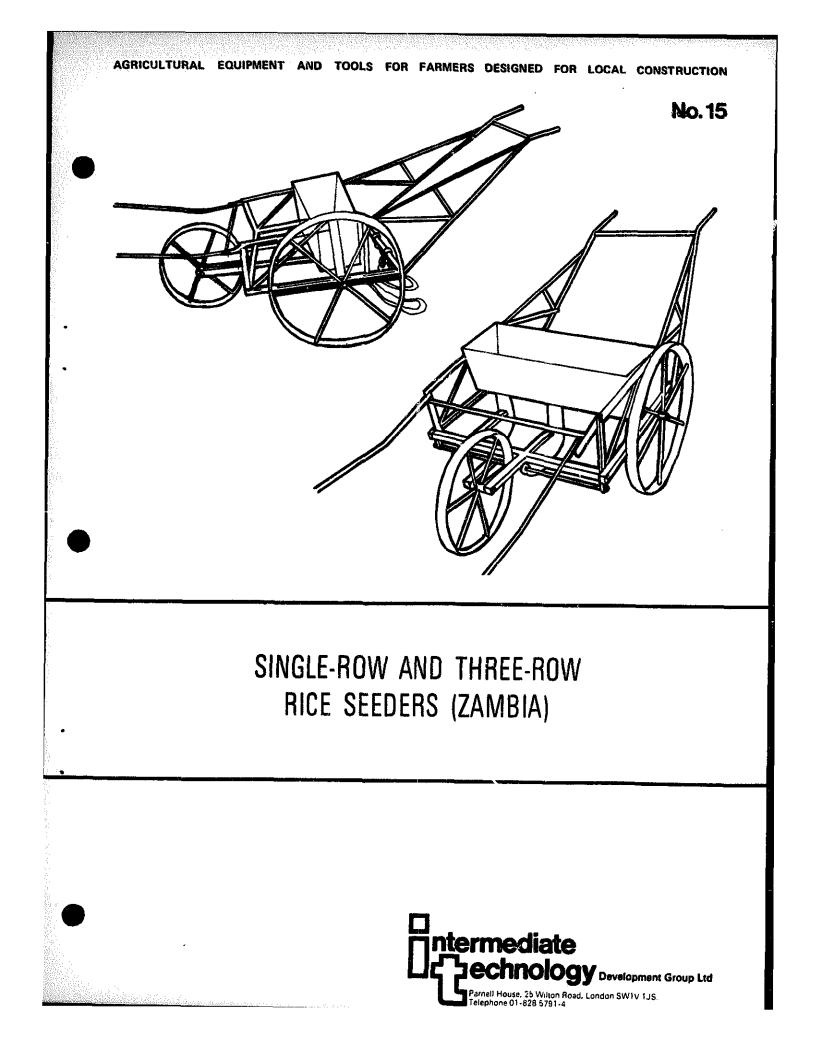
Single-Row and Three-Row Rice Seeders ITDG Agricultural Equipment and Tools No. 15

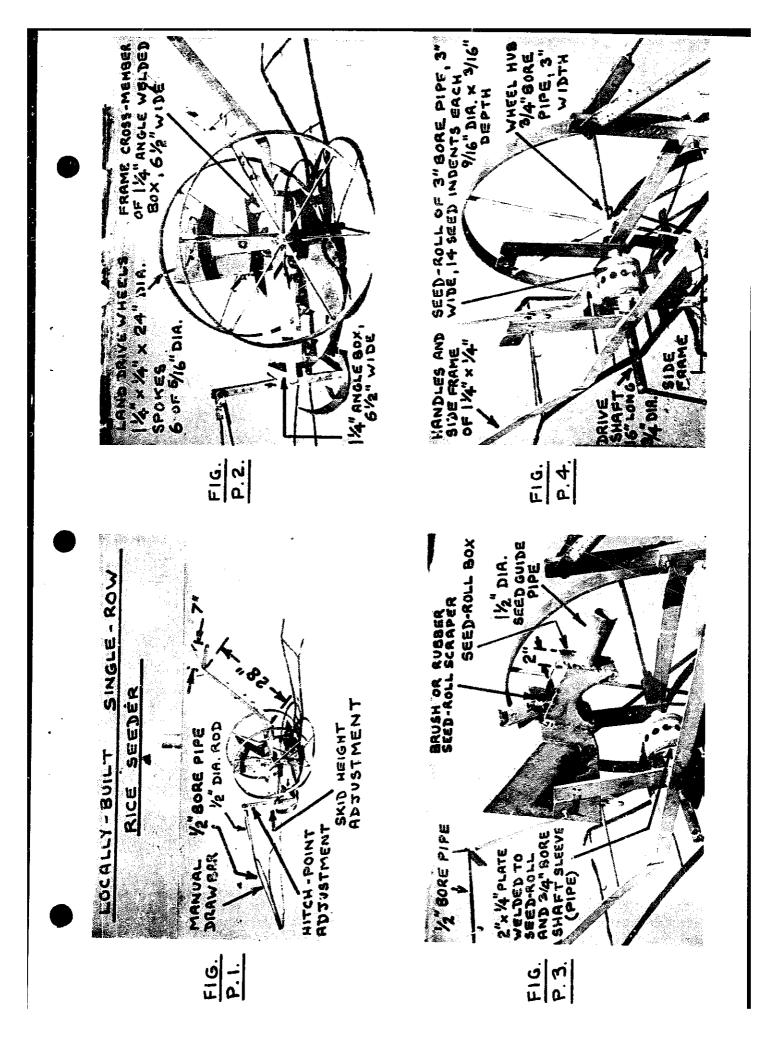
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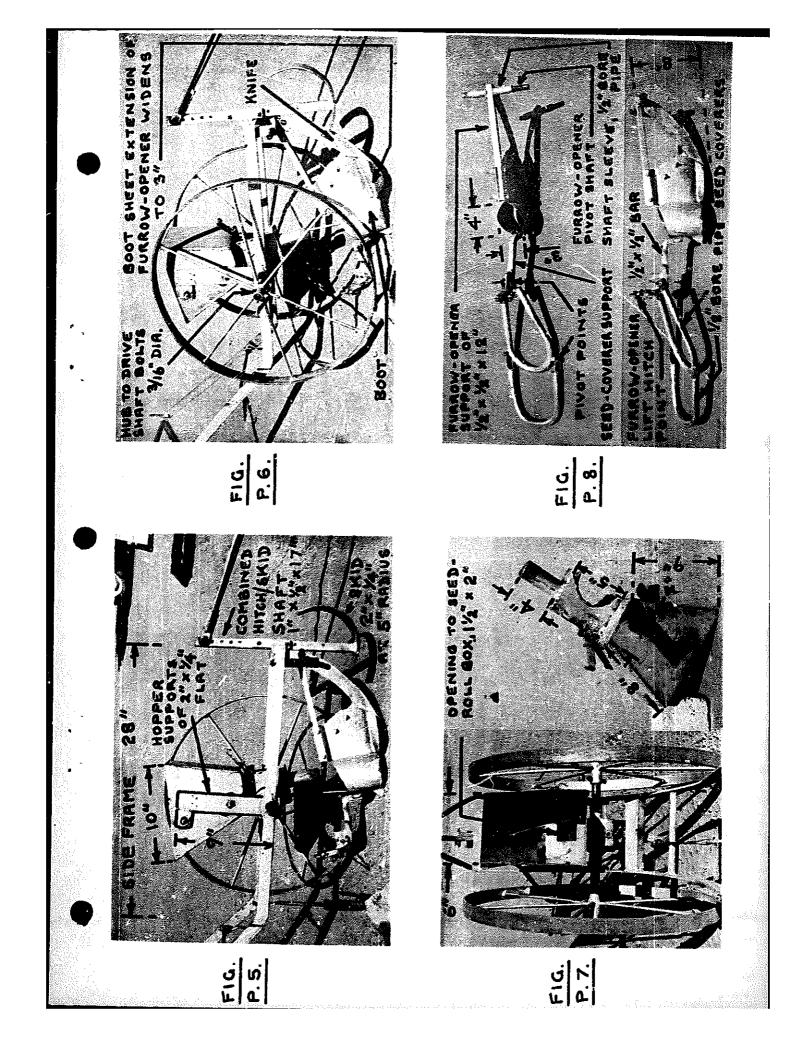
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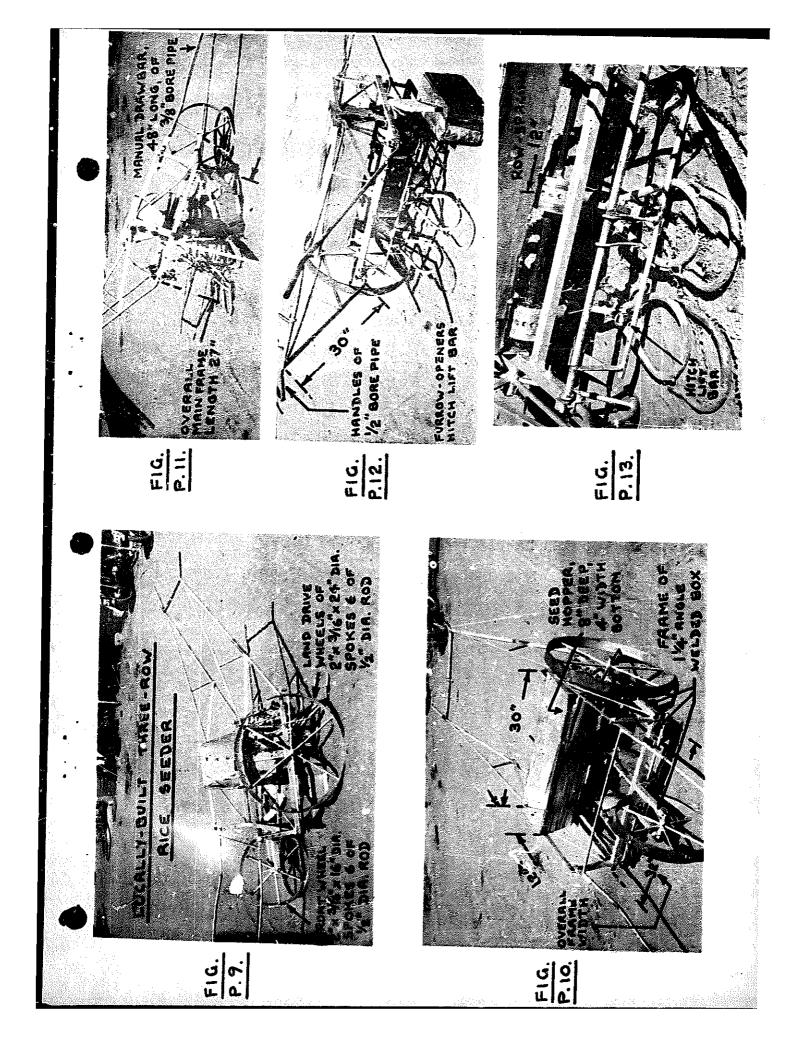
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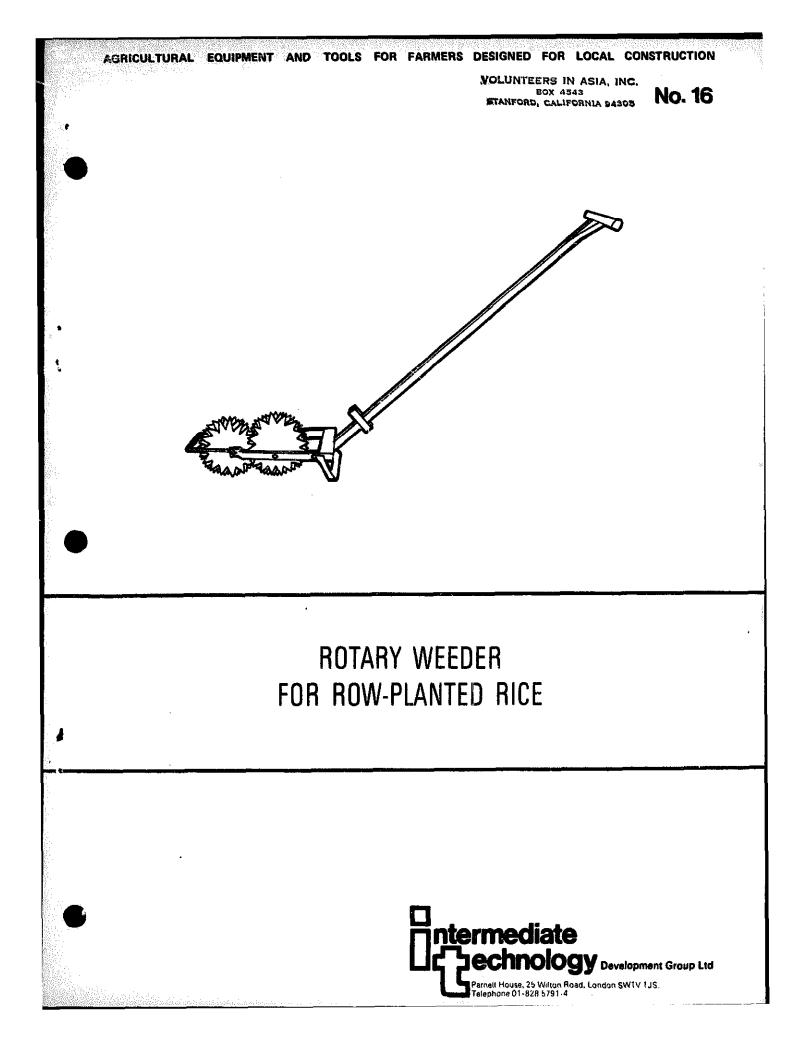
Rotary Weeder for Row-Planted Rice ITDG Agricultural Equipment and Tools No. 16

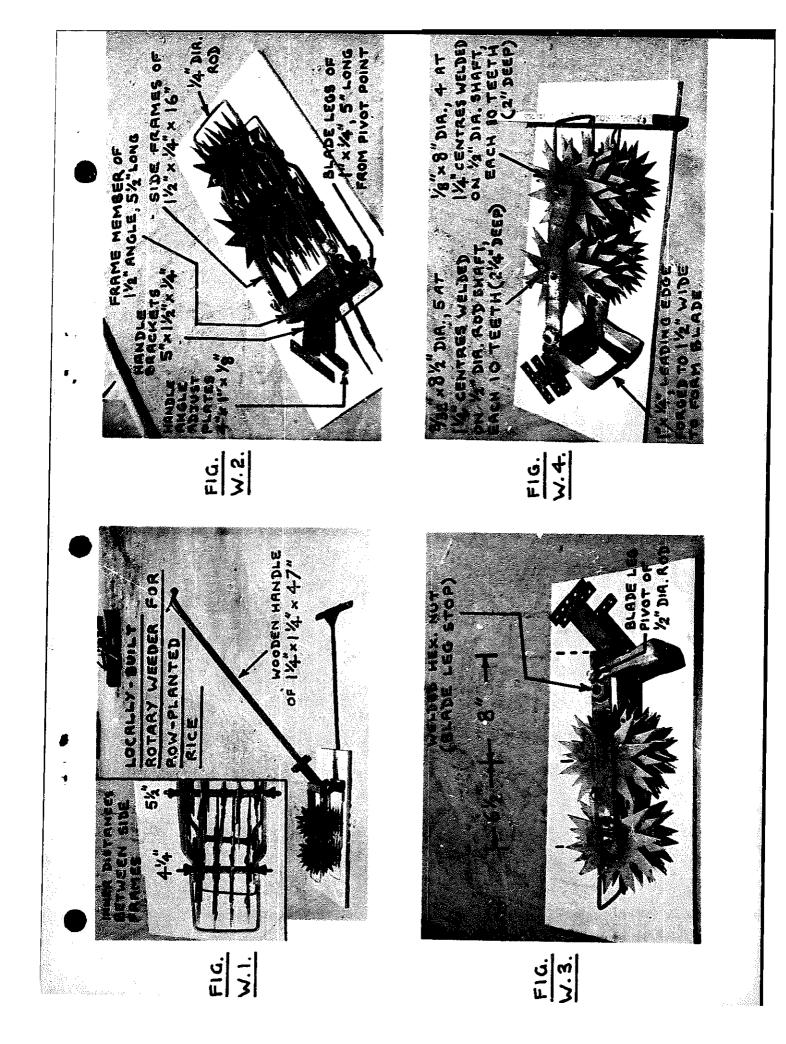
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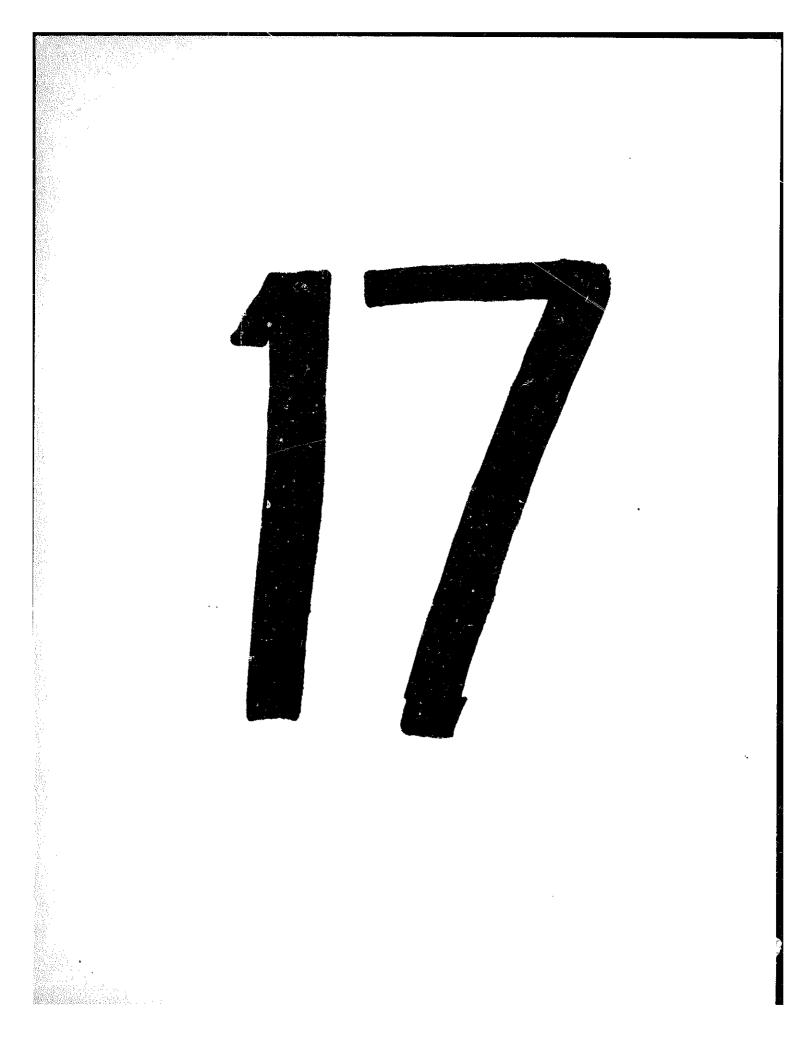
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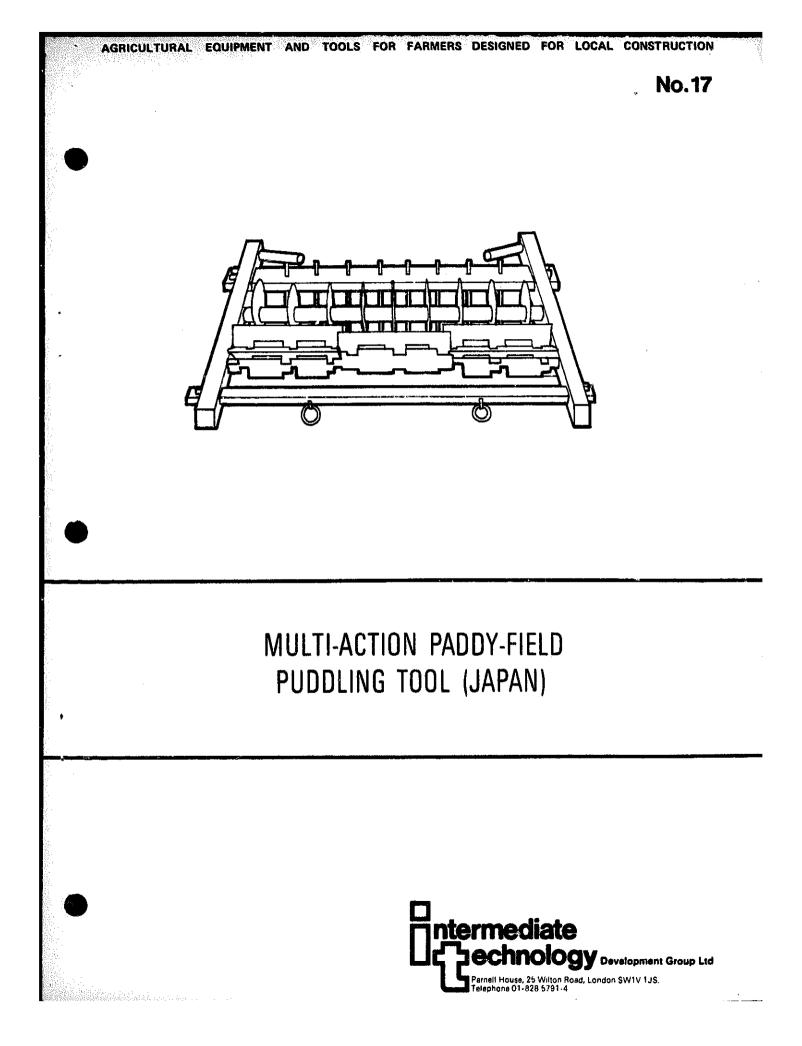
Multi-Action Paddy-Field Puddling Tool ITDG Agricultural Equipment and Tools No. 17

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MULTI-ACTION PADDY FIELD PUDDLING DOL, SUITABLE FOR LOCAL CONSTRUCTION 21 KNIVES AT ANGLE OF FIG. APPROX. 60° AND WOODEN FIG. 612" IN LENGTH FROM CP.3. FRAME UNDERSIDE OF SIDES OF CP.1. TIMBER CROSS 2" x 4" MEMBER ROTATING CHOPPER BLADES, 3 SETS OF WOODEN FRAME CROSS-MEMBER OF 2×2 6 EACH, OF 18" THICK STEEL SHEET, FACH BLADE 212" IN HEIGHT, FEET RIVETED OR SCREWED TO 3" DIR. PIPE. FIG. CP.4. ROTATING DISCS OF 9 AT 4" CENTRES, WELDED TO 2" DIA. PIPE FIG. KNIVES OF CP.2. 12"×11/2" STEEL TAPERING TO 4" THICKNESS AT POINTS, 8 AT 4" CENTRES FIG. C P.5. BER CROSS MEMBER





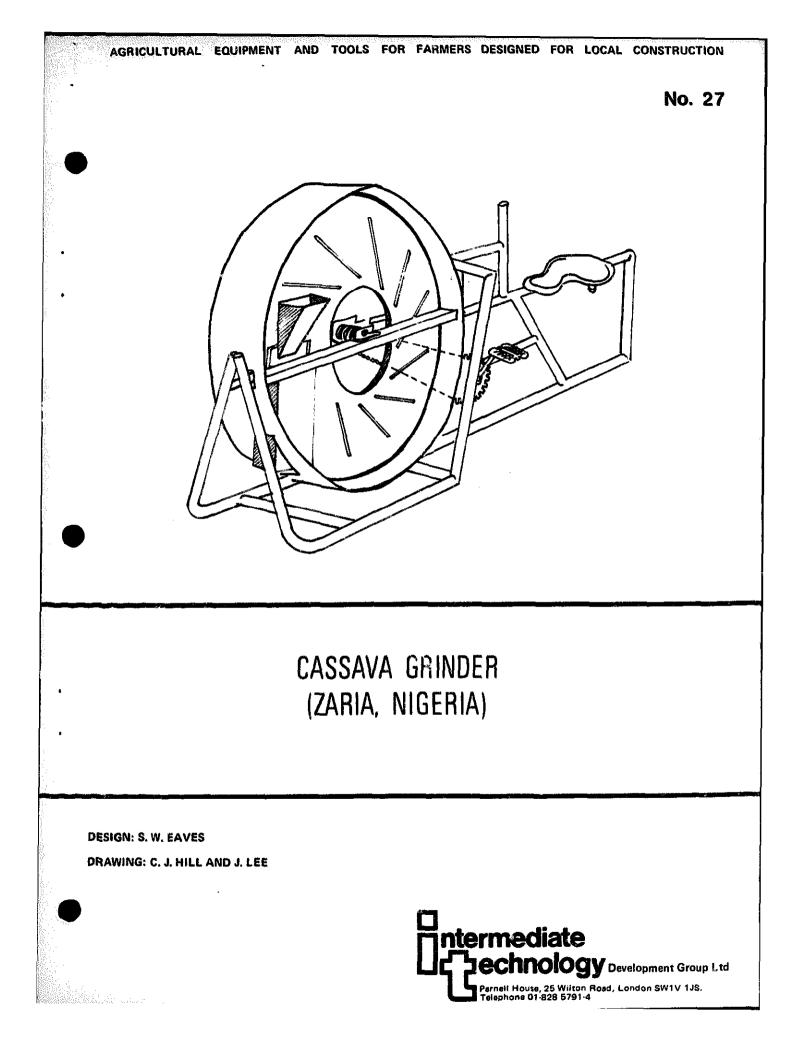
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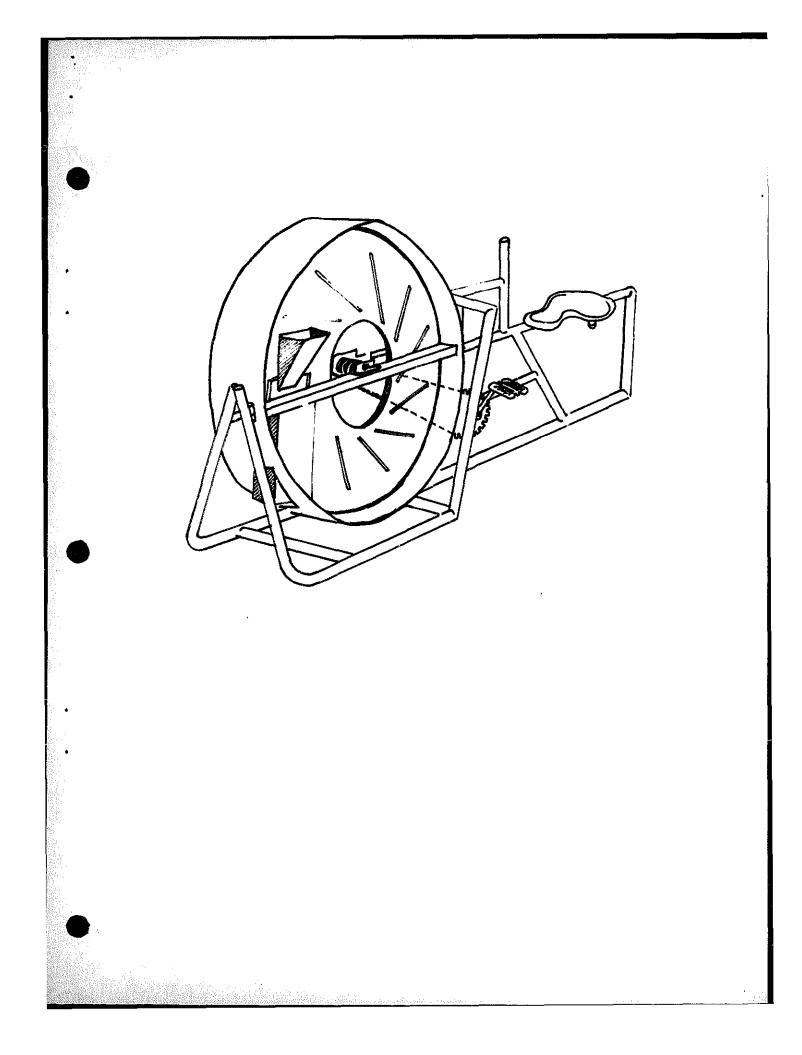
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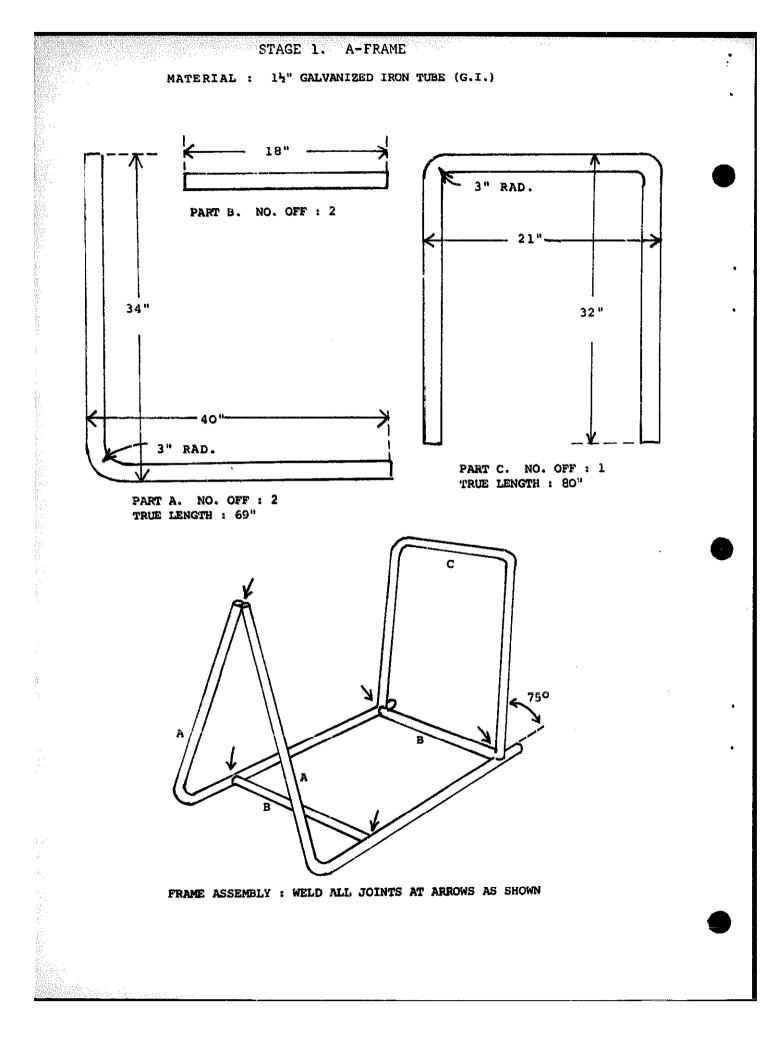
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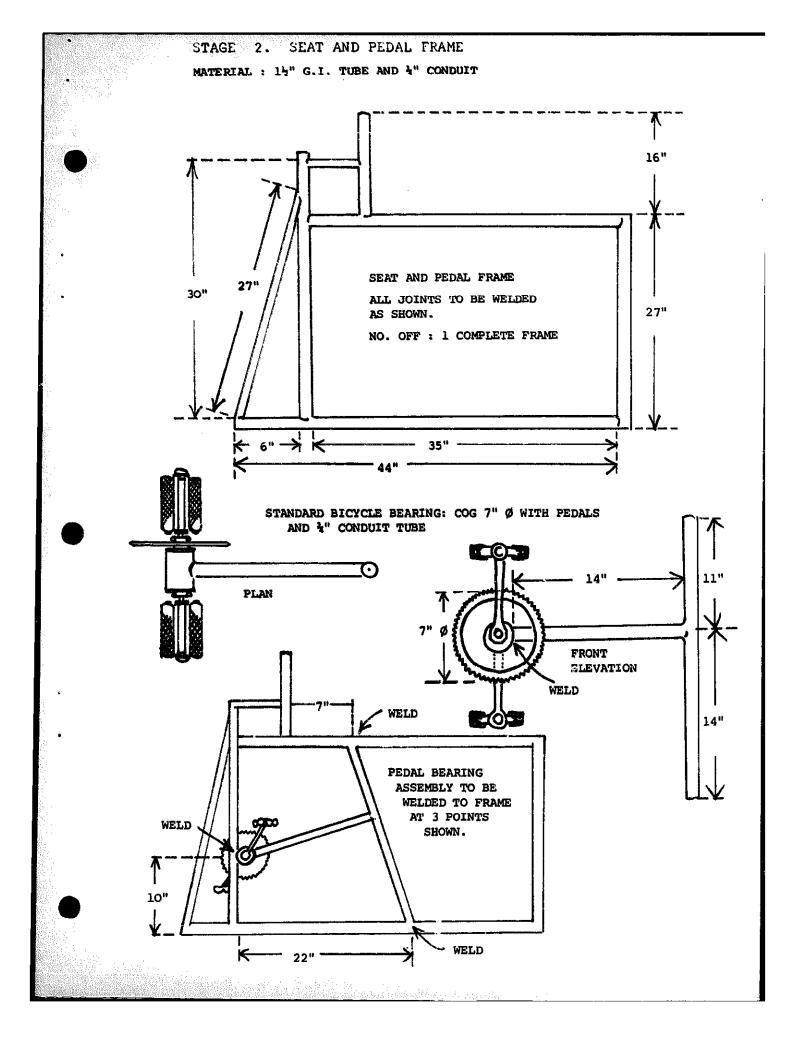
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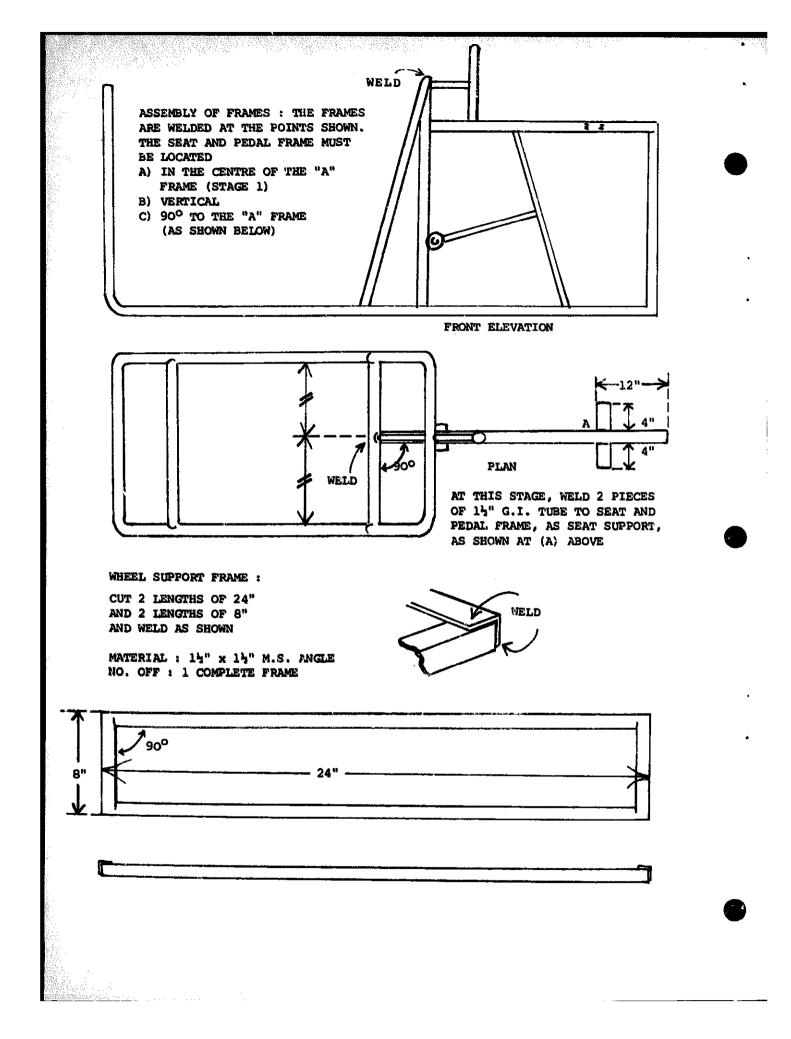
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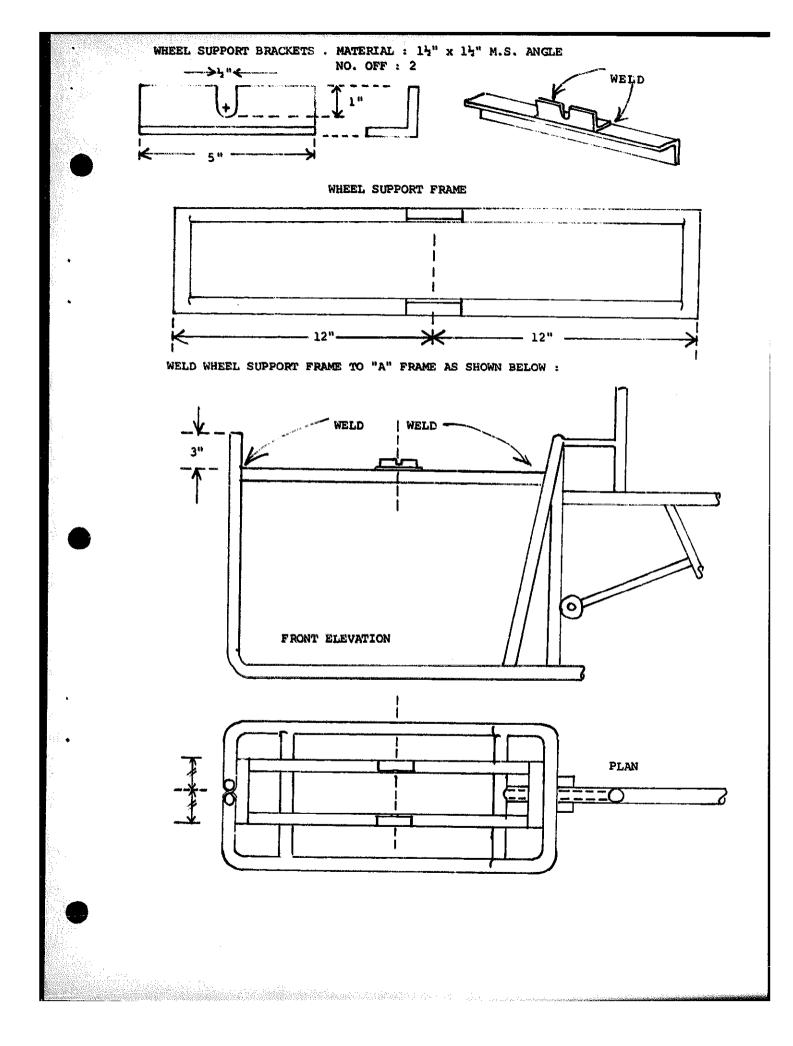


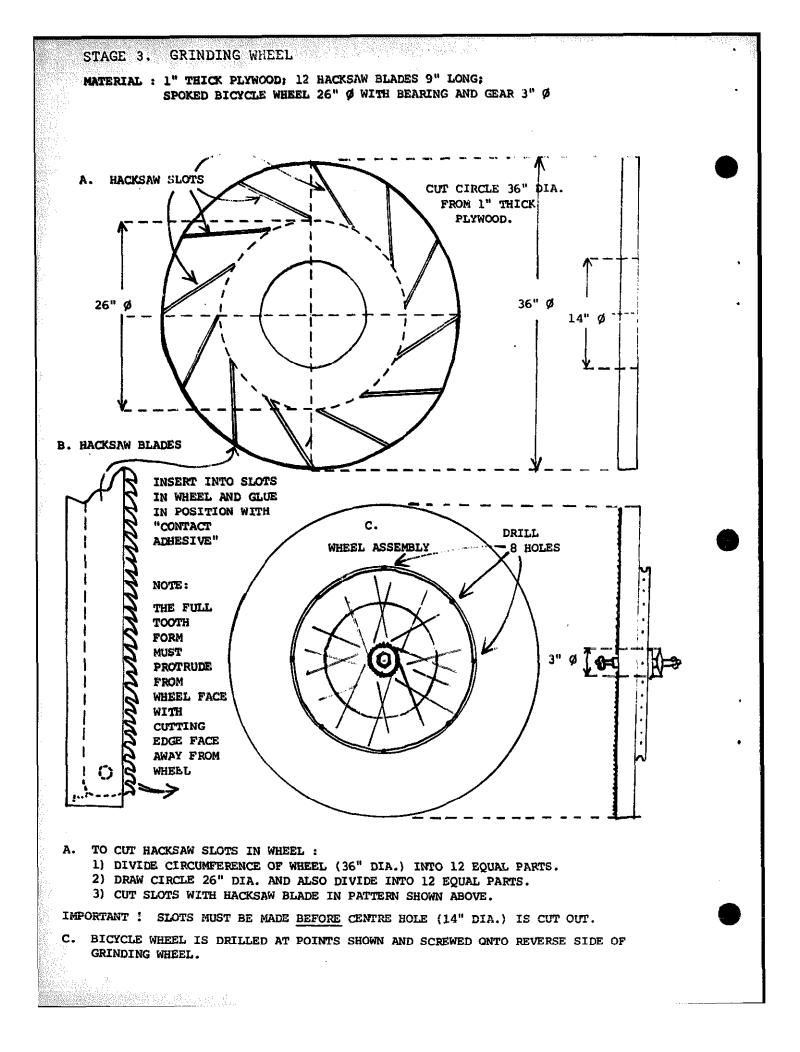


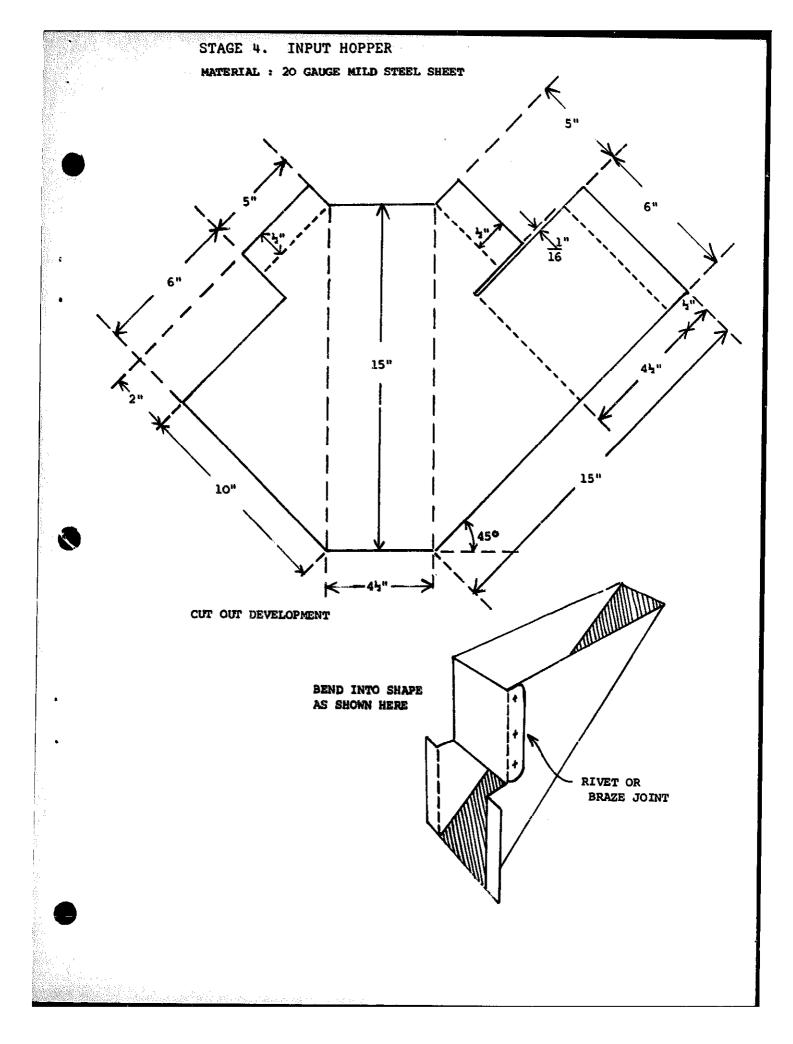


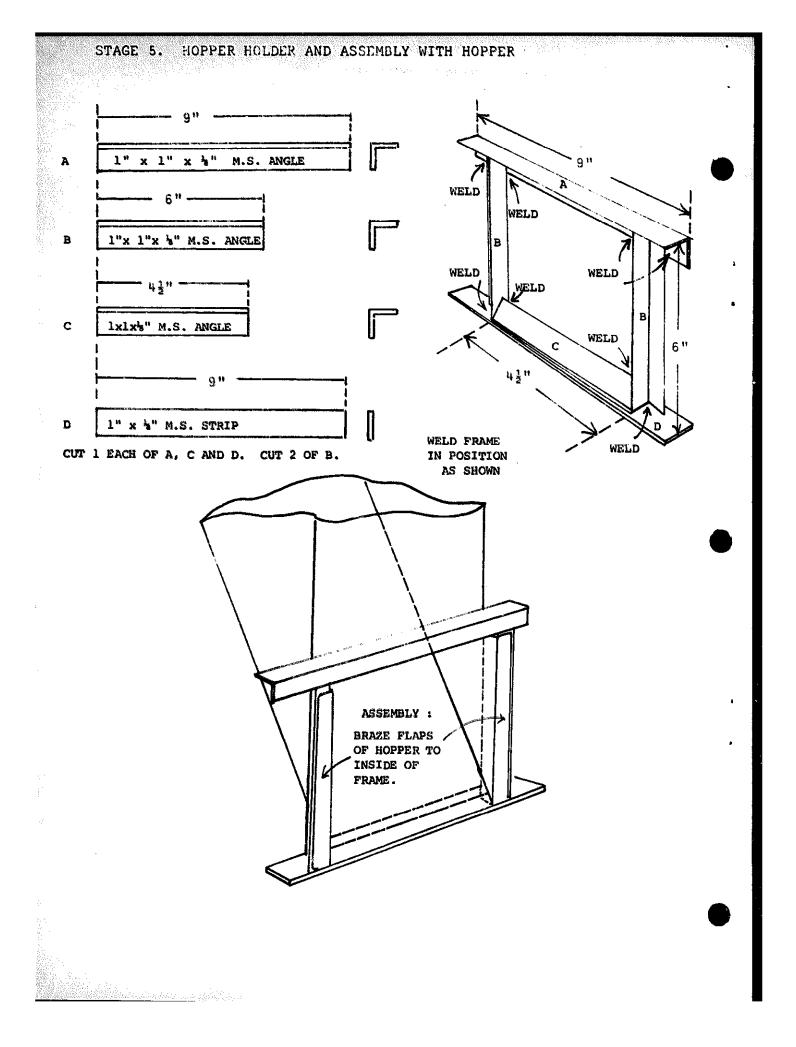


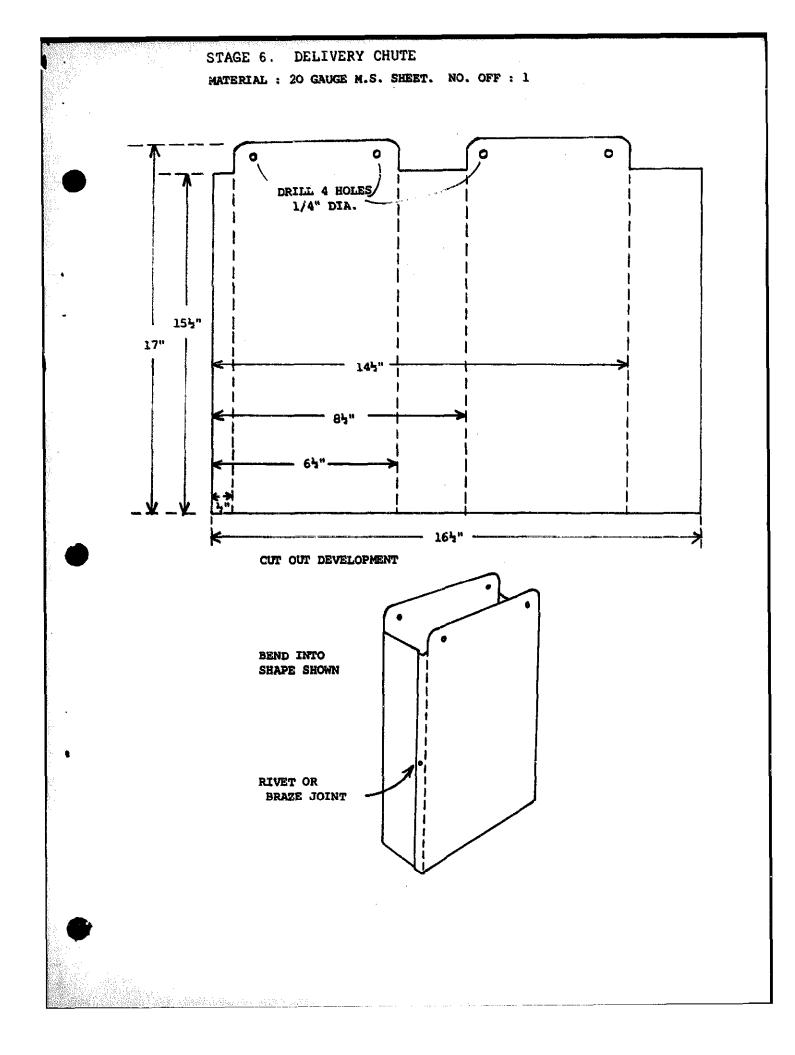


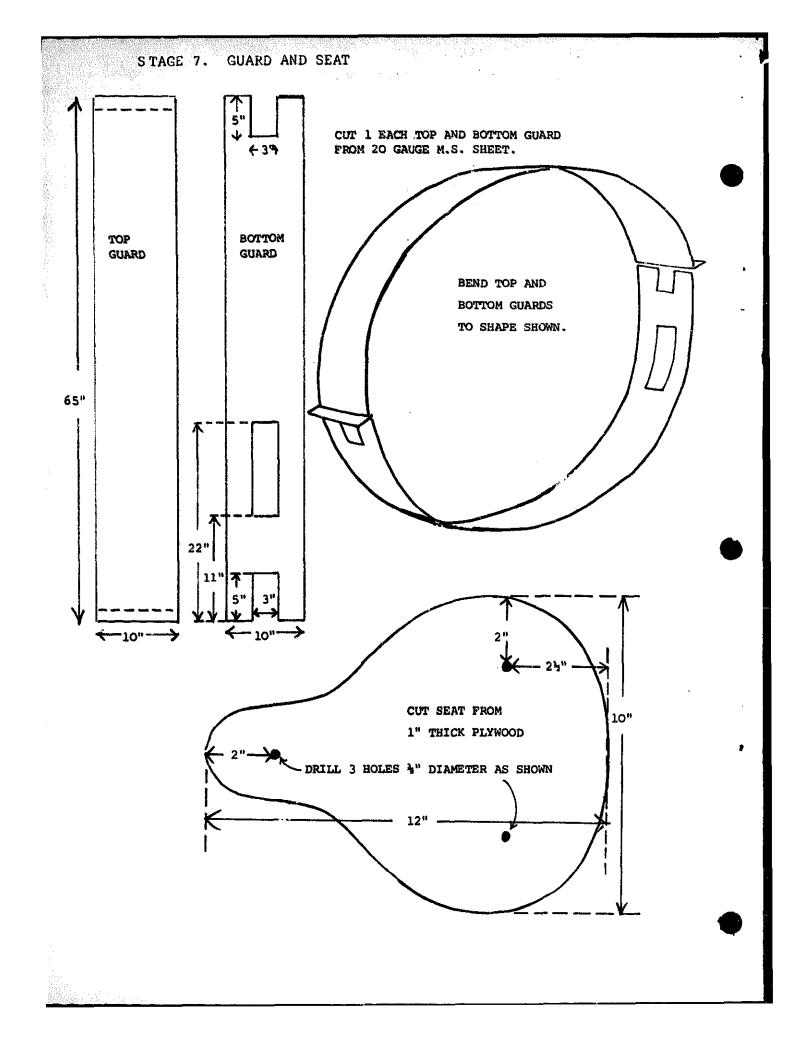




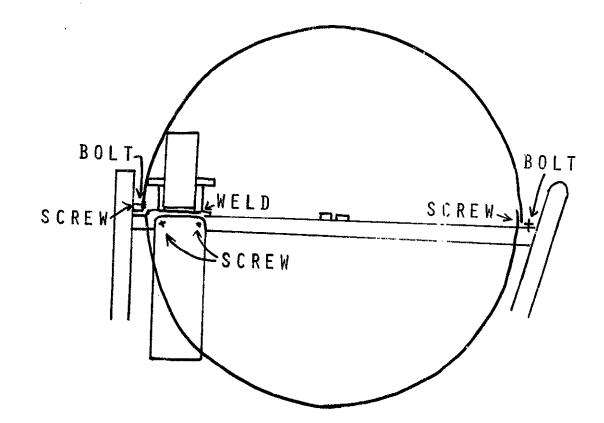








STAGE 8. FINAL ASSEMBLY



- 1. BOLT TOP GUARD TO WHEEL SUPPORT FRAME.
- 2. WELD INPUT HOPPER TO WHEEL SUPPORT FRAME AT POINT 3" FROM L. H. SIDE.
- 3. SCREW DELIVERY CHUTE TO WHEEL SUPPORT FRAME DIRECTLY UNDER INPUT HOPPER.
- 4. LOCATE SLOT IN BOTTOM GUARD ONTO DELIVERY CHUTE AND SCREW BOTTOM GUARD TO TOP GUARD.
- 5. LOCATE GRINDING WHEEL ONTO WHEEL SUPPORT BRACKETS AND TIGHTEN NUTS.
- 6. CONNECT WHEEL COG TO PEDAL COG WITH CORRECT LENGTH OF DRIVE CHAIN.
- 7. BOLT SEAT TO SEAT FRAME.
- 8. CLEAN WELDED AREAS AND PAINT.
- 9. APPLY TWO COATS OF POLYURETHANE VARNISH TO GRINDING WHEEL.
- 10. TEST.





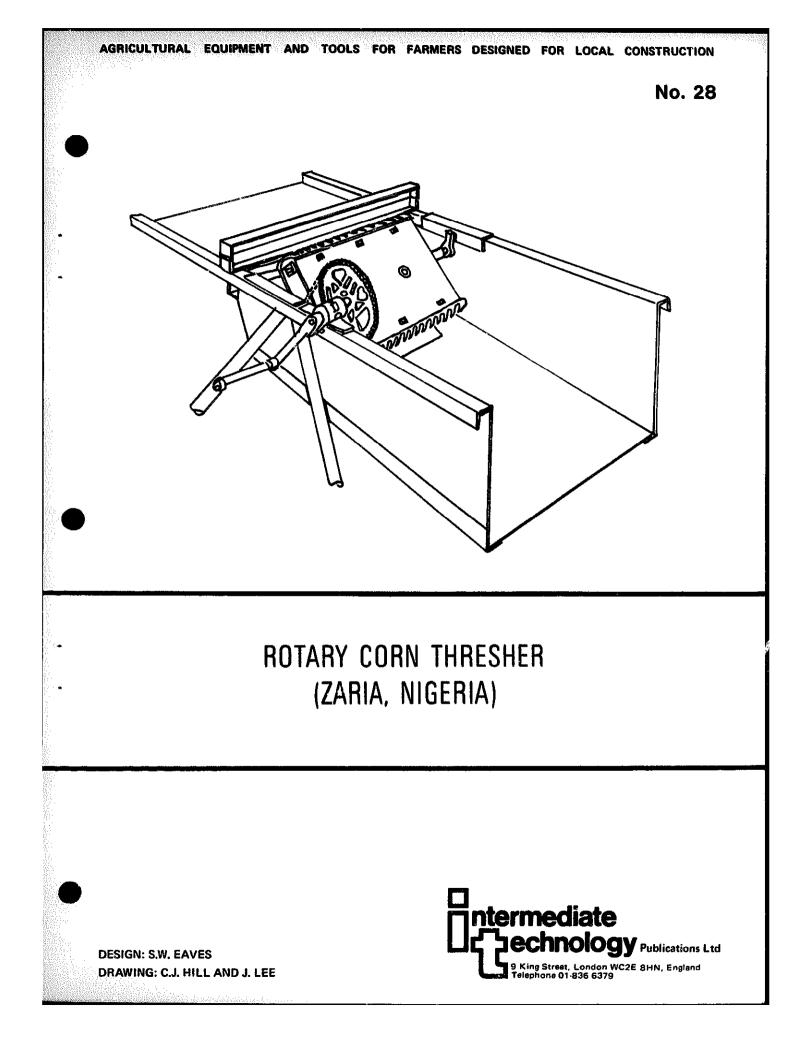
Rotary Corn (Sorghum) Thresher ITDG Agricultural Equipment and Tools No. 28

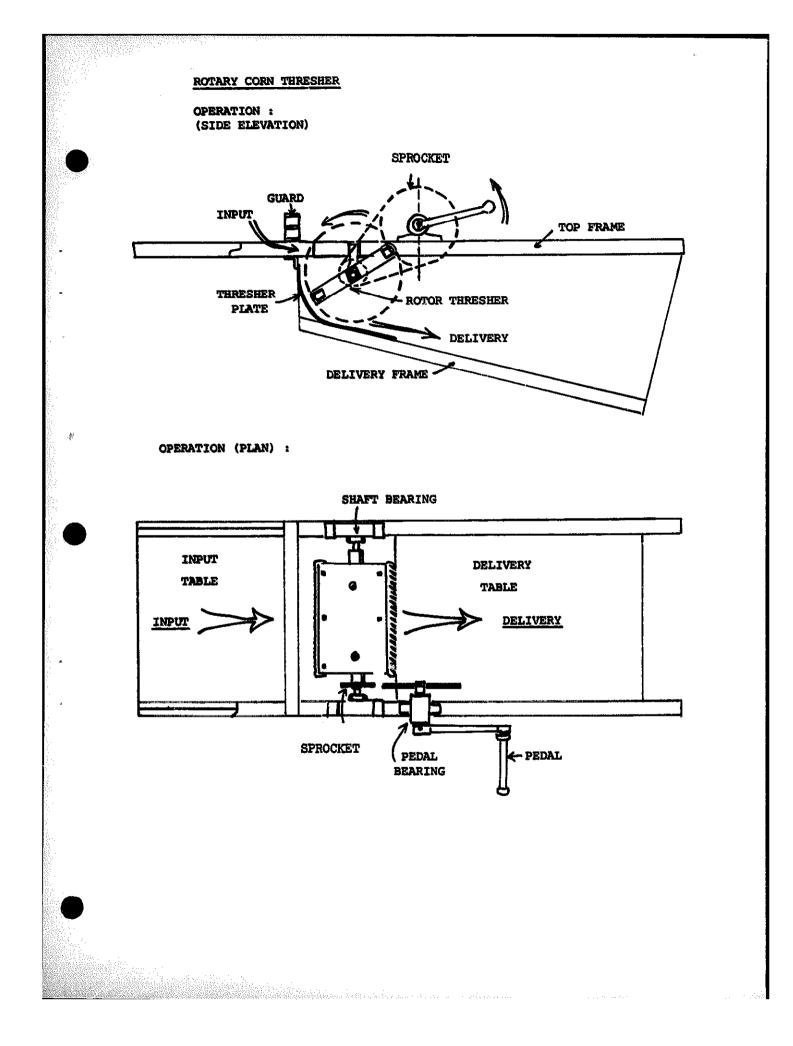
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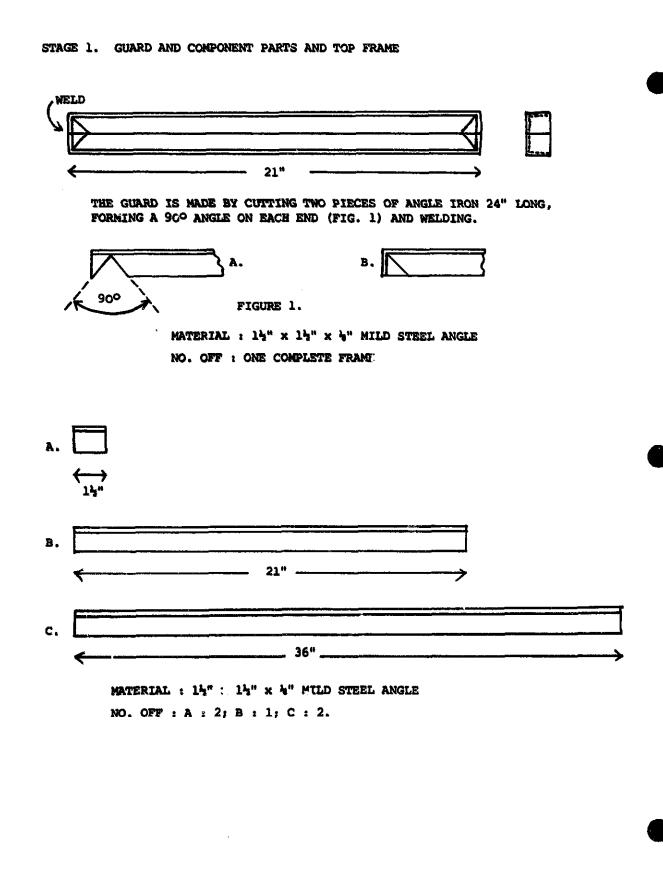
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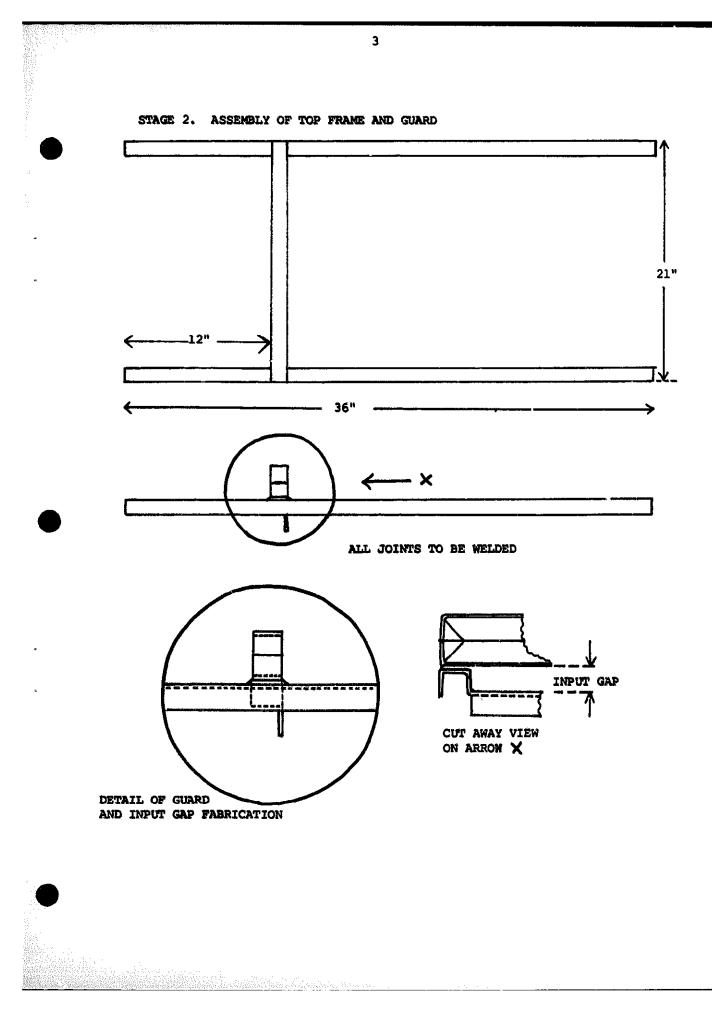
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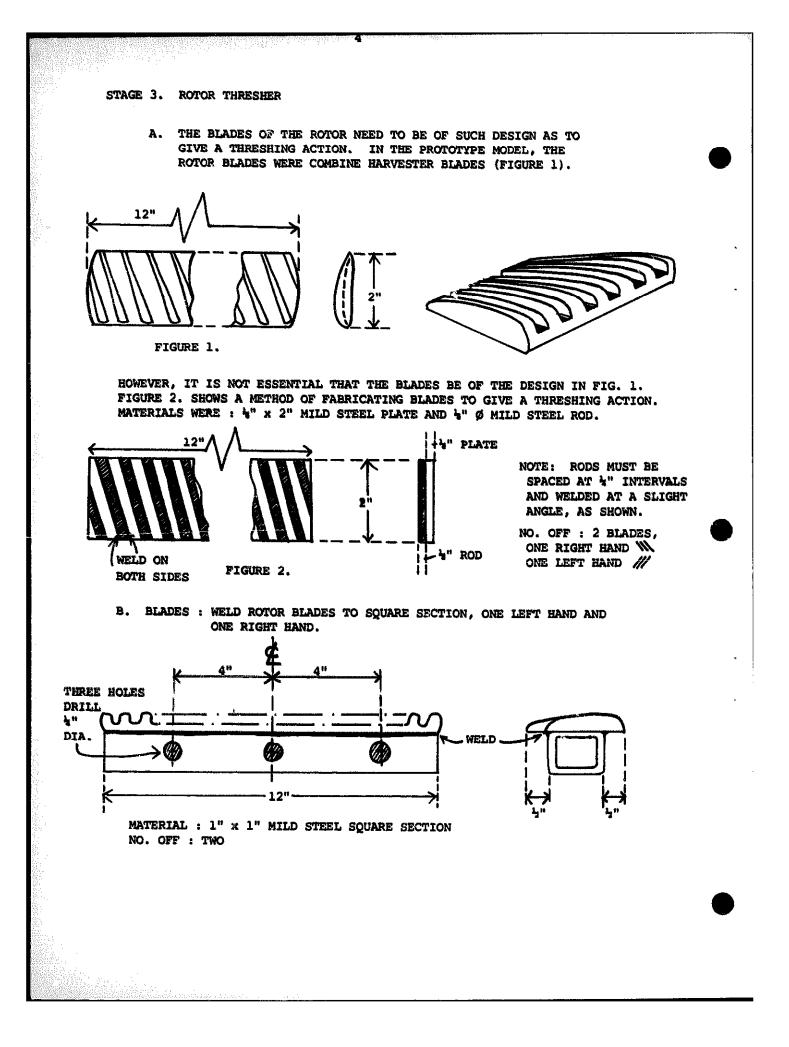
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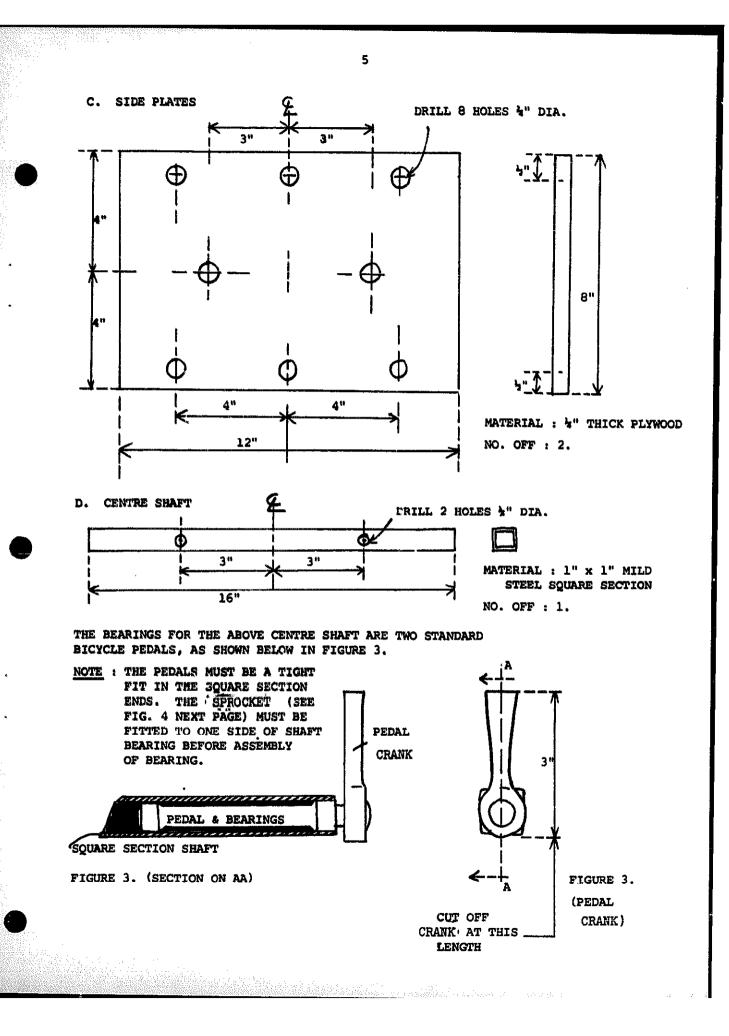


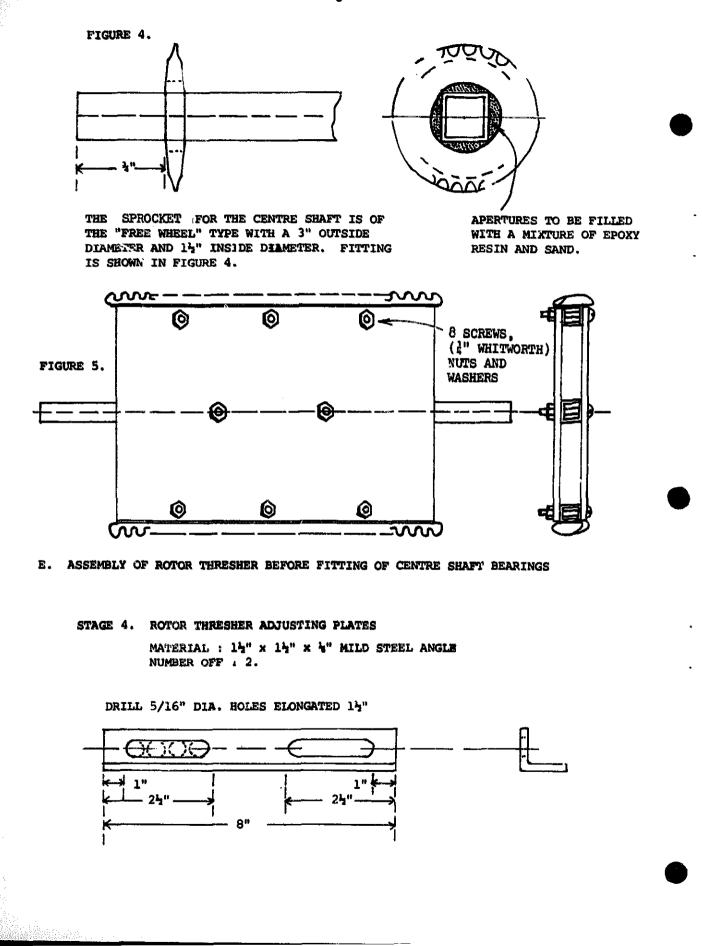


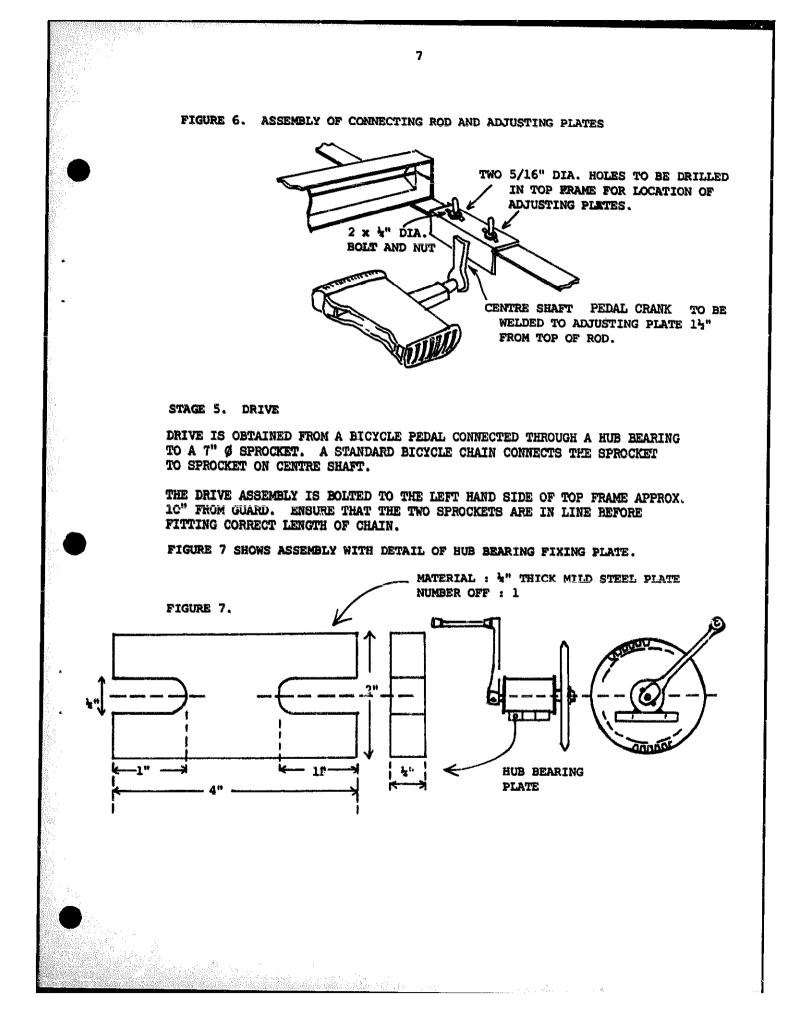


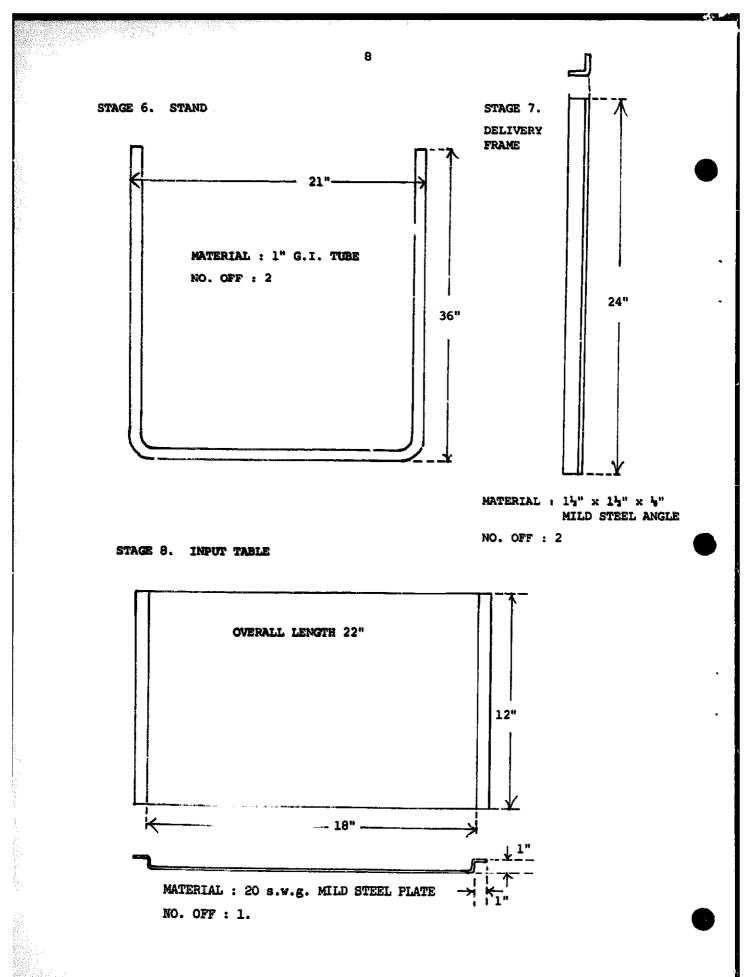


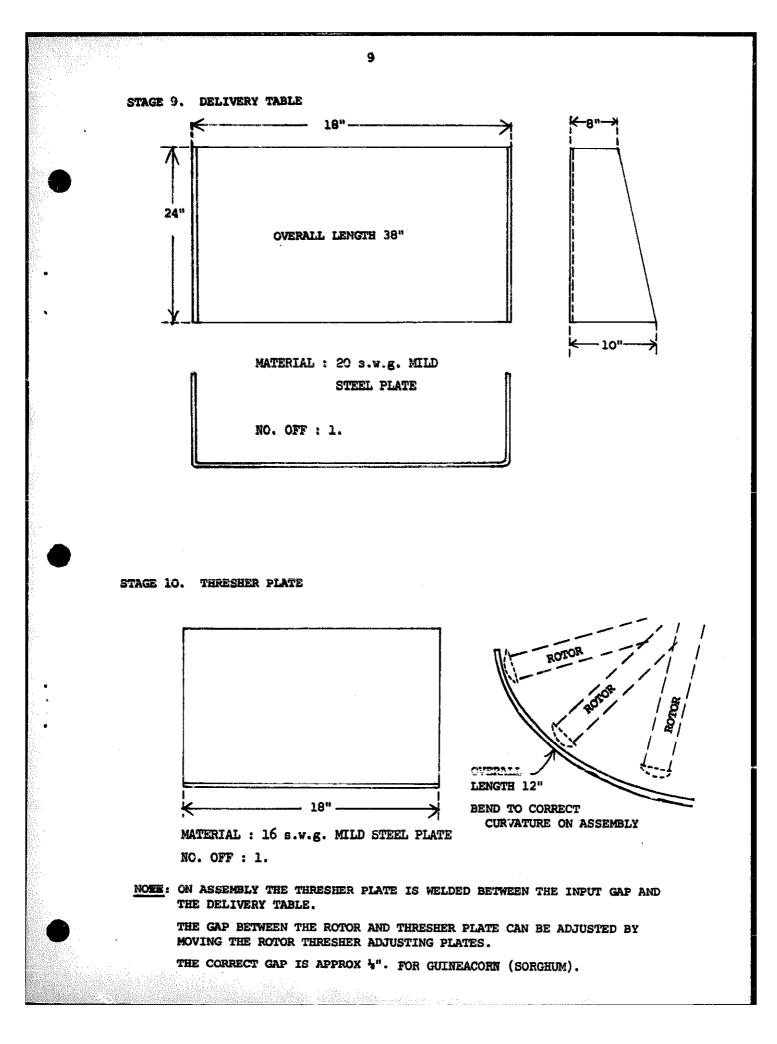


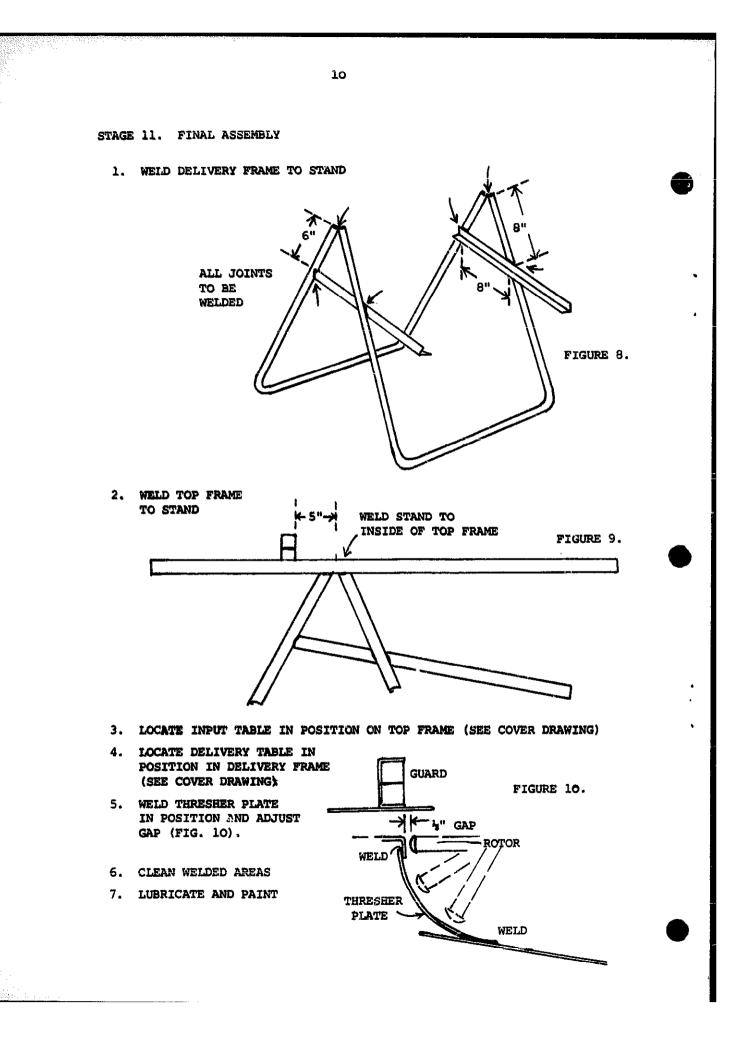


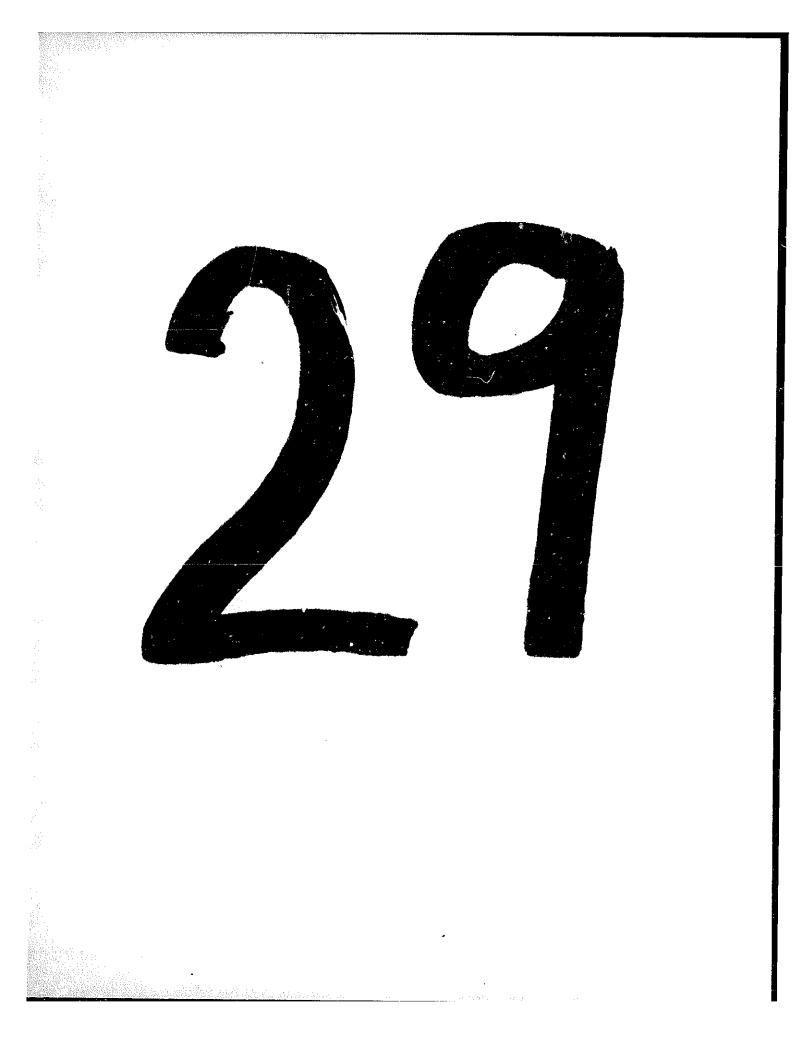














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