

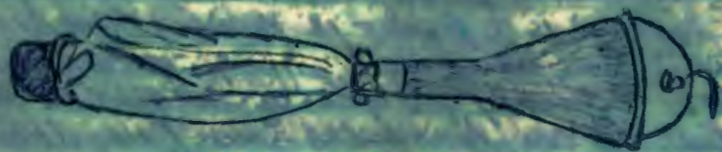
THE PANZERFAUST IS CALLED "GRETCHEN" FOR SHORT, WHILE THE 30 IS KNOWN SIMPLY AS PANZERFAUST. THE TUBES ARE SIMILAR, AND HAVE A SIGHT & FIRING MECHANISM. THEY ARE $4\frac{3}{4}$ INCHES IN DIAMETER AND 2 FEET $7\frac{1}{2}$ INCHES LONG. THE PROJECTILE ARE VERY LARGE HOLLOW CHARGES. THE CHARGES FOR GRETCHEN WEIGH 3 POUNDS 4 OUNCES; THAT FOR THE PANZERFAUST WEIGH 6 POUNDS, 14 OUNCES. EACH IS MOUNTED ON A WOODEN TAIL ROD FITTED WITH SPRING-STEEL VANES. THESE VANES WRAP AROUND THE ROD WHEN THE ROD IS INSERTED IN THE NOZZLE OF THE LAUNCHING TUBE, AND SPRING OUT TO GUIDE THE PROJECTILE AFTER FIRING. THE TUBES ARE EXPENDABLE, AND CONTAIN THE PROPPELLING CHARGE FIRED BY PERCUSSION. THE RANGE IS VERY LIMITED, AND IS INDICATED BY THE DESIGNATION (30 METERS 30 METERS RANGE, OR 33 YARDS; 60, 66 YARDS).

THE OPERATOR MUST TAKE COVER AFTER DISCHARGING A PROJECTILE. ALSO, HE MUST WEAR A HELMET AS A PROTECTION AGAINST A RAIN OF FRAGMENTS AND DEBRIS, KEEP HIS EYES CLOSED, AND KEEP THE FRONT EDGE OF HIS HELMET AGAINST THE GROUND. THE SET OF FLAMES TO THE REAR IS FATAL UP TO 10 FEET; THE OPERATOR MUST TAKE THIS INTO ACCOUNT WHEN FIRING, AND MAKE SURE THAT NO WALL OR OBSTACLE WILL BLOCK THE SET. THE TUBES ARE HELD UNDER THE RIGHT ARM. THE LEFT HAND SUPPORTS THE FRONT OF THE TUBE, WHILE THE RIGHT HAND IS FREE TO PULL OUT THE SAFETY PIN, LOCK THE STRIKER, AND PRESS THE RELEASE BUTTON. FIRING IS EFFECTED BY ALIGNING THE TOP OF THE SIGHT AND THE TOP EDGE OF THE PROJECTILE. ARMOR PENETRATION IS GOOD FOR THE PANZERFAUST 30. IT IS ESTIMATED THAT ACTUAL PENETRATION IS AROUND 6 INCHES.



Projectile in firing position

THE PANZERFAUST 30, WITH SIGHT RAISED & PROJECTILE SHOWN SEPARATELY. THE PROJECTILE VANE IS EXTENDED.



PANZERWURFSCHNECKE, WITH VANES FOLDED.



THROWING POSITION.

SINCE ALLIED AIR POWER HAS CURTAILED THE VIABILITY OF GERMAN AIR-TANK GUNS, THE GERMANS HAVE BEEN COMPELLED TO PLACE A GREAT STRESS ON THE "CFFERONIA" (REGIMENTAL ANTITANK WEAPON (CFFERONIA)); PANZERFAUST 30 (USED BY RIFLE COMPANY) AND THE PANZERWURFSCHNECKE (HOLLOW CHARGE TYPE OF PROJECTILE).

20000 Mining and Strengthening of Abatis (Fortification) 23310

IN REGARD TO THE COUNTER MEASURES USED BY THE ALLIED ARMORED VEHICLES WITH CIRCULAR SAWS TO CLEAR SUCH OBSTACLES, THE ORDER DESCRIBES HOW THE VEHICLES APPROACH THE OBSTACLE WITH ELEVATED SAW BLADES, BRING DOWN THE SAW BLADES, CUT THE FIRST FEW TREES, AND PUSH THEM ASIDE WITH THE BLADE, IN THE ELEVATED POSITION. THIS PROCEDURE IS REPEATED UNTIL A LANE IS CLEARED. AS A COUNTER MEASURE, THE GERMAN ARMY HAS BEEN ORDERED TO TAKE THE FOLLOWING PRECAUTIONS IN PREPARING ABATIS:

ABATIS, ESPECIALLY THOSE IMMEDIATELY BEHIND THE FORWARD DEFENSE POSITIONS WILL BE PREPARED WITH AN INCREASED NUMBER OF HIDDEN CHARGES, ANTI-TANK MINES AND CONSTRUCTION MINES TO BE FIRED BY REMOTE CONTROL IN THE FRONT, REAR, AND SIDES OF EACH OBSTACLE.

HEAVY IRON, CLAMPING HOOKS, WIRE, AND OTHER MATERIALS WHICH WILL INTERFERE WITH THE SAW DEVICE ARE TO BE BUILT INTO THE FIRST FEW TREES ON BOTH THE ALLIED AND GERMAN SIDES OF EACH ABATIS, AND ESPECIALLY AT THOSE POINTS WHERE AN ALLIED FORCE MAY BE EXPECTED TO USE THE NEW DEVICE. IN THE CASE OF ABATIS UNDER GERMAN CONTROL OR OBSERVATION, AN ADDITIONAL NUMBER OF ARMOR-PIERCING WEAPONS AND CLOSE COMBAT ANTI-TANK WEAPONS WILL BE PROVIDED.

TRUE AND DUMMY BOOBY TRAPS IN ROADS:

IN A NUMBER OF INSTANCES, INVESTIGATION OF AN OBSTACLE IN ROAD SURFACE, WHICH SO OFTEN INDICATES THE PRESENCE OF LAND MINES - HAS RESULTED MERELY IN THE DISCOVERY OF A SERIES OF BRICKS WIRED TOGETHER. SOMETIMES, HOWEVER, THE BRICKS HAVE BEEN BOOBY TRAPPED - EITHER TO AN ARMED MINE NETWORK OR TO A SENSITIVE MINE UNDERNEATH ONE OF THE BRICKS. ALSO, "TOPMINER" HAVE BEEN FOUND WITH SENSORS BENEATH THEM. RECENTLY THE TOPMINER HAS BEEN FOUND BOOBY TRAPPED WITH A 22 42 PILE IN THE GUNNIP AND WITH A WIRE LEADING TO A SPIKE DRIVEN INTO THE GROUND. THE GERMAN PRACTICE OF VARYING TRUE AND DUMMY BOOBY TRAPS IN ROADS NO LONGER IS CONTINUED BY TWO FACTORS, TEMPORARY SUPPLY SHORTAGES IN CERTAIN SECTORS, AND THE ENEMY'S DESIRE TO SLOW DOWN ALLIED TROOPS BY FORCING THEM TO EXAMINE CAREFULLY EACH SUSPECTED INSTALLED ROAD MINING.

TETTERMINES EMBEDDED IN CONCRETE.

TETTERMINES (M) HAVE BEEN FOUND EMBEDDED IN CONCRETE CURBS, FRONT TO CURBS. SQUARE AND 4 INCHES THICK. TOP PAPER COVER THE PRESSURE PLATE, ALLOWING FOR AIR SPACE BETWEEN THE CONCRETE AND THE TOP OF THE MINE. THE FOLLOWING ARE SOME PROPERTIES OF TETTERMINES TREATED IN THIS MANNER, SINCE THE MINE HAS THE FOLLOWING ADVANTAGES:

- ① THE MINE IS WATER PROOF AROUND THE PRESSURE PLATE, WHICH ASSURES IT IS LIKELY TO INTER.
- ② BLENDING INTO ROADS, BRIDGES, AND SO ON IS COME EASIER.
- ③ THE TRAPPING FORCE IS INCREASED. THE DETRICATION OF ONE OF THESE MINE FORMED A CRATER ABOUT 4 FEET WIDE AND 3 FEET DEEP IN ORDINARY FIRM SOIL.
- ④ THE SHOCK EFFECT IS INCREASED. PIECE OF STREET CASING & SEVERAL CHAINS OF BARRELS ARE BURNED BY MINE 350 YARDS.

THE LOSS OF ENGINEERS RECOMMENDS THAT TETTERMINES EMBEDDED IN CONCRETE BE DESTROYED IN PLACE. ALTHOUGH BOOBY TRAPPING HAS NOT BEEN ENCOUNTERED, IT IS POINTED OUT THAT NEW EQUIPMENT THE MINE WOULD BE VERY DIFFICULT BECAUSE OF THE HEAVY WEIGHT OF THE CONCRETE CAST.

ENGINEER RUSES: WITH DRAWAL TACTICS EMPLOYED BY THE GERMANS

"WHILE CLEARING MINES FROM BEACH SECTORS, A NUMBER OF TELLERMINES ARE USUALLY LOCATED EMBEDDED IN THE SAND. USUALLY 6 OF THESE MINES ARE LAID FAIRLY CLOSE TOGETHER, AND WHEN THESE 6 WERE DETONATED, A FIELD OF ABOUT 25 TO 30 MINES EXPLODED SIMULTANEOUSLY. THE ENTIRE GROUP HAD BEEN CONNECTED WITH PRIMA BORDA TO PRODUCE THIS RESULT.

IF ALLIED ENGINEERS CLEAR A ROAD THROUGH A MINEFIELD AND MARKS THE CLEARANCE WITH TAPES AND IF POSSIBLE, DURING THE COVER OF DARKNESS, THE GERMANS WILL INFILTRATE INTO THE AREA, DISCOVER THE TAPES, REMOVE IT SOME DISTANCE FROM THE CLEARANCE & SET THE TAPES UP AGAIN, MARKING THE ROAD DIRECTLY THROUGH A MINEFIELD. THE GERMANS WERE WELL AWARE THAT AN INFANTRY ADVANCE THE FOLLOWING MORNING WOULD HAVE TO BE DELAYED UNTIL ENGINEERS COULD CLEAR ANOTHER PATHWAY TO ADVANCE.

THE GERMANS SOMETIMES USE SUICIDE SQUADS OF ABOUT 50 MEN TO DETERMINE THE STRENGTH OF AN ALLIED POSITION. I HAVE OBSERVED THIS PROCEDURE ON SEVERAL OCCASIONS. ONE INSTANCE IS PARTICULARLY WORTH NOTING. IF ALLIED TROOP WAS HOLDING A HILLTOP, THE GERMANS KNEW THE APPROXIMATE LOCATION, BUT DID NOT KNOW OUR STRENGTH OR FIREPOWER. THE ENEMY WILL USUALLY SEND OUT A PATROL OF 50 MEN TO DETERMINE OUR STRENGTH. OCCASIONALLY ALLIED OUTPOSTS SUCCEEDS IN SPOTTING ONE GERMAN SOLDIER WHILE THEY WERE SOME DISTANCE AWAY. FROM THE GERMAN'S BEHAVIOR, THE OUTPOST DEDUCED THAT AN OFFICER WAS GIVING THEM INSTRUCTION. SINCE THEIR ADVANCE WAS ANTICIPATED, WE MADE SOME PREPARATION FOR THEM WHEN THEY APPROACH. OUR SOLDIERS WERE SO DEPLOYED THAT THE DISTANCE FROM THE LEFT FLANK TO THE RIGHT FLANK CONSIDERED NO MORE THAN 75 YARDS. THE GERMANS USUALLY APPROACH UNDER COVER OF DARKNESS MAKING NO VERY GREAT EFFORT TO MAINTAIN SILENCE. AS A RESULT, IT WAS POSSIBLE TO HEAR THEM WHILE THEY WERE SOME DISTANCE AWAY. AS SOON AS ENEMY TROOPS ARE WITHIN 40 YARDS ITS CUSTOMARY TO OPEN UP & FIRE OUR WEAPONS TO ANNULIMATE OR CAPTURE THE ENEMY PATROL. ON MOST OCCASIONS, THE GERMAN SUICIDE PATROL WILL FIGHT UNTIL THE BATTER END AND IN SUCH SO - THE GERMAN INTELLIGENCE CAN ESTIMATE THE STRENGTH OF THE ALLIED POSITION AND ITS FIREPOWER.

COMBAT IN HILLY TERRAIN

IN HILLY TERRAIN THE GERMANS MAKE SPECIAL EFFORTS TO KEEP TAB ON THE MOVEMENT OF ALLIED TROOPS. A SYSTEM OF LISTENING POSTS SEEMS TO BE MAINTAINED. USING TRACER BULLETS, THE GERMAN FIRE COORDINATE PISTOLS TOWARD ALLIED TROOPS MOVING IN THE HILLS, & GERMAN COORDINATORS IMMEDIATELY BEGIN SHOOTING THE SPOTS INDICATED BY TRACERS.

THE GERMAN COMBAT PATROLS USUALLY CONSISTS OF FROM 4 TO 16 MEN ARMED WITH COORDINATE PISTOLS, LIGHT MACHINE GUNS AND LIGHT CANNONS. THESE PATROLS USUALLY FAN OUT AND ALLOW ONLY ONE MAN TO FIRE AT ANY ONE TIME, SO AS NOT TO DISCLOSE THE WHEREABOUTS OF THE REST OF THE PATROLS. THEY AS A RULE DO NOT "SHOOT" ON THE GOING OF AMMUNITION THEY CARRY ON PATROL.

GERMAN OUTPOSTS USE REDUCED RANGE SIGNALS TO CALL FOR ASSISTANCE OR ASSISTING FIRE. THE CODES ARE ALWAYS GIVEN THE SAME MEANING, THAT IS, IN THE HILLS WHERE TERRAIN & SITUATION CALLS FOR SPECIAL SIGNALS, WITH NO SET PATTERNS. GERMAN ARTILLERY & CANNONS ARE MADE TO ZERO IN ON APPROXIMATE FIRE BLIND IMMEDIATELY AFTER THE SIGNAL FLARES ARE SET UP. THIS WE SHOULD ALWAYS BE

Tracks situated next to the side armor plates, in the interior of the vehicle, carry 154 gallons of flame thrower fuel. A small gasoline engine and a pump, used to propel the fuel are situated in the center of the interior. The effective range of the large flame throwers is about 40 yards, whereas that of the small equipment is unlikely to exceed 30 yards. The fuel carried is sufficient for about 80 bursts, each lasting from one to two seconds.



MEDIUM ARMORED, PERSONNEL AND FLAME THROWER VEHICLE.

"TACTICS":

- ① THE MEDIUM ARMORED FLAME THROWER VEHICLE IS A CLOSE COMBAT VERSION OF THE PANZER GRENADIERS. IT IS USED IN THE OFFENSIVE WHEN THE OTHER WEAPONS USED FROM THE VEHICLE DO NOT PROVE TO BE SUFFICIENTLY EFFECTIVE.
- ② IN ADDITION TO EMPLOYING ITS MACHINE GUNS AGAINST PERSONNEL AT RANGES OF AS MUCH AS 440 YARDS, THE VEHICLE MAY DIRECT FLAMES AGAINST PERSONNEL AND STATIC TARGETS AT RANGES OF AS MUCH AS 40 YARDS. IF THE FLAME DOES NOT DESTROY HOSTILE TROOPS, IT SHOULD AT LEAST FORCE THEM TO LEAVE THEIR COVER. ATTACKS WITH FLAME ARE PARTICULARLY EFFECTIVE IN CROPPING UP GRASSLAND QUICKLY, IN LIGNING HOSTILE SOLDIERS WHO PUT IN A SUDDEN APPEARANCE NEAR THE VEHICLE, AND IN DESTROYING HOSTILE PERSONNEL IN HASTY PERMANENT FIGHT POSITIONS.
- ③ THESE FLAME-THROWER VEHICLES NORMALLY ARE EMPLOYED BY WHOLE PLATOONS, AND ALWAYS IN CLOSE COOPERATION WITH ARMORED PANZER GRENADIERS UNIT IN THE ATTACK.
- ④ FOR COMBAT IN FORTIFIED AREAS, ATTACKS ON PERMANENT POSITIONS AND SO ON, THE VEHICLES MAY BE EMPLOYED SIMPLY UNDER THE COMMAND OF ARMORED PANZER GRENADIER PLATOON WHEN THE LATTER DISMOUNT; THE FLAME-THROWER VEHICLES WILL BE LEFT BEHIND WITH THE DISMOUNTED PERSONNEL BARRIERS.
- ⑤ IT IS FORGIVEN TO USE THESE VEHICLES LIKE INFANTRY TANKS OR ASSAULT GUNS, AS "PULP" VEHICLES ON THE MARCH OR IN ACTION, FOR PROTECTIVE DUTY, OR AS INDEPENDENT PATROL VEHICLES.
- ⑥ IN THE PURSUIT, THE PLATOON WILL SUPPORT LOCAL AND PREPARED COUNTER-ATTACKS BY ARMORED PANZER GRENADIERS.
- ⑦ EVERY EFFORT MUST BE MADE TO EMPLOY THE PLATOON AS A WHOLE, FOR GREATER EFFECTIVENESS.
- ⑧ PREPARATIONS FOR ATTACK (TERRAIN ESTIMATE, TACTICAL RECONNAISSANCE, PROTECTIVE DUTIES, QUANTITY OF FUEL) FOLLOW THE SAME PRINCIPLES AS ARE OBSERVED BY TANKS AND PANZER GRENADIERS.
- ⑨ IN THE ATTACK THE FLAME-THROWER VEHICLES COME IN EXTENDED ORDER BEHIND THE ARMORED PANZER GRENADIER UNITS. THE ARMOR NECESSARILY IS COVERED BY MACHINE GUN FIRE - COVERED BY THE FIRE OF OTHER WEAPONS.