Claims

1. A grenade, especially a 40 mm grenade, with a cartridge, a projectile and a high pressure-low pressure ignition system comprising a hollow cylindrical chamber component with a high pressure chamber accommodating a propellant charge and a low pressure chamber disposed outside of the chamber component, which are connected to each other by means of one or a plurality of channels that can be opened by means of the pressure arising in the chamber component on ignition of the propellant charge, characterized in that
the high pressure chamber (12) is divided by means of a rupture diaphragm (16) into a first chamber segment (14) accommodating the propellant charge (9) and a second chamber segment (15).

2. The grenade as claimed in claim 1,
characterized in that
the channel(s) (19) are disposed in the region of the first or the second chamber segment (14, 15).

3. The grenade as claimed in claim 1 or 2,
characterized in that
the rupture diaphragm (16) is displaceable in the high pressure chamber (12) and is accommodated in the respective position in a clamped manner, or in that the rupture diaphragm (16) contacts a stop (24).

4. The grenade as claimed in any one of the preceding claims,
characterized in that
the rupture diaphragm (16) is disposed on a bowl (17), whose cylindrical segment (18) covers the channel(s) (19).

5. The grenade as claimed in any one of claims 1 to 3,
characterized in that
a separator ring (22) is provided that covers the channel(s) (19).

6. The grenade as claimed in any one of the preceding claims,
characterized in that
the rupture diaphragm (16), possibly the entire bowl (17) or the ring (22), is made of metal, especially of metal sheet.

7. The grenade as claimed in claim 6,
characterized in that
it is made of copper, brass or aluminum.

8. The grenade as claimed in any one of the preceding claims,
characterized in that
on the chamber component (3) a threaded connector (10) detachable by means of a predetermined breaking point (20), onto which the projectile (11) is screwed.

9. The grenade as claimed in any one of claims 1 to 7,
characterized in that
the projectile (11) is detachably connected to the cartridge (2) by means of a crimped connection.

Claims

1. A grenade, especially a 40 mm grenade, with a cartridge, a projectile and a high pressure-low pressure ignition system comprising a hollow cylindrical chamber component with a high pressure chamber accommodating a propellant charge and a low pressure chamber disposed outside of the chamber component, which are connected to each other by means of one or a plurality of channels that can be opened by means of the pressure arising in the chamber component on ignition of the propellant charge, wherein the high pressure chamber (12) is divided by means of a rupture diaphragm (16) into a first chamber segment (14) accommodating the propellant charge (9) and a second chamber segment (15), and wherein the rupture diaphragm (16) is displaceable in the high pressure chamber (12) and is accommodated in the respective position in a clamped manner.

2. The grenade as claimed in claim 1,
characterized in that
the rupture diaphragm (16) is disposed on a bowl (17), whose cylindrical segment (18) covers the channel(s) (19).

3. The grenade as claimed in claim 1,
characterized in that
a separator ring (22) is provided that covers the channel(s) (19).

4. The grenade as claimed in any one of the preceding claims,
characterized in that
the rupture diaphragm (16), possibly the entire bowl (17) or the ring (22), is made of metal, especially of metal sheet.

5. The grenade as claimed in claim 4, characterized in that the rupture diaphragm (16), the entire bowl (17) or the ring (22) is made of copper, brass or aluminum.

6. The grenade as claimed in any one of the preceding claims, characterized in that on the chamber component (3) a threaded connector (10) detachable by means of a predetermined breaking point (20) is provided, onto which the projectile (11) is screwed.

7. The grenade as claimed in any one of claims 1 to 5, characterized in that the projectile (11) is detachably connected to the cartridge (2) by means of a crimped connection.