a shell effective sector extending along said axis, with first and second pluralities of weakenings in the shell, each extending along and having respective first and second orientations relative to the longitudinal axis, such that upon exertion of an explosion force on the weakenings from a corresponding first or second direction, respective first or second explosion fragments are generated; and

a first surface and a second surface, each extending along the longitudinal axis, and defining, together with said shell effective section, a cavity for accommodating an explosive charge; each of said surfaces being oriented so that upon initiation of detonation of the explosive charge adjacent to said first or ~~said~~ second surface, shock waves propagating therefrom are directed towards the respective first or second plurality of weaknings in the respective first or second direction, so as to exert the explosion force thereon, thereby generating the first or second explosion fragments, respectively.

Each of the first and second surfaces can be associated with a respective first and second detonator configured to initiate the detonation of the explosive charge.

The warhead can comprise a selection mechanism configured for selecting one of the first and second detonators for initiating detonation of the explosive charge, for generating the first or second explosion fragments, respectively.

The selection of the first or the second detonators can be performed in accordance with the type of the target to be hit by corresponding first or second explosion fragments.

The first explosion fragments can be configured to effectively hit hard targets, and the second explosion fragments can be configured to effectively hit soft targets.

The missile can comprise a rolling mechanism configured for controlling the rolling of the missile and the warhead mounted therein. The rolling mechanism can be configured to be synchronized with the detonation of the explosive charge, such that upon generation of first or second explosion fragments, a corresponding portion of the shell effective sector that is corresponding to the first or the second shock wave is directed towards the target by the rolling mechanism.

The selection mechanism can be operative in conjunction with the orienting mechanism, so as to synchronize the detonation of the explosive charge with the rolling of the missile and the warhead mounted therein with respect to the target.

CLAIMS:

1. A warhead configured for being mounted in a missile for hitting a target, the warhead comprising:

a shell having a rotational symmetry about a longitudinal axis;

a shell effective sector extending along said axis, with first and second pluralities of weakenings in said shell, each extending along and having respective first and second orientations relative to said longitudinal axis, such that upon exertion of an explosion force on the weakenings from a corresponding first or second direction, respective first or second explosion fragments are generated; and

a first surface and a second surface, each extending along the longitudinal axis, and defining, together with said shell effective section, a cavity for accommodating an explosive charge; each of said surfaces being oriented so that upon initiation of detonation of the explosive charge adjacent to said first or ~~said~~ second surface, shock waves propagating therefrom are directed towards the respective first or second plurality of weaknings in said respective first or second direction, so as to exert said explosion force thereon, thereby generating said first or second explosion fragments, respectively.

2. The warhead according to any one of the preceding claims, wherein each of said first and second surfaces is associated with a respective first and second detonator configured to initiate the detonation of the explosive charge.

3. The warhead according to any Claim 2, further comprising a selection mechanism configured for selecting one of said first and second detonators for initiating detonation of the explosive charge, for generating said first or second explosion fragments, respectively.

4. The warhead according to Claim 3, wherein said selection of the first or the second detonators is performed in accordance with the type of the target to be hit by corresponding first or second explosion fragments.

5. The warhead according to Claim 4, wherein said first explosion fragments are configured to effectively hit hard targets, and said second explosion fragments are configured to effectively hit soft targets.

6. The warhead according to any one of Claims 3 to 5, wherein said missile comprising a rolling mechanism configured for controlling the rolling of the missile and