

MOBILE GUN CARRIAGE AND GUN SYSTEMABSTRACT

5 A mobile gun carriage for instance for a howitzer has two drive wheel assemblies
mounted at the front end of a chassis. Each drive wheel assembly has a drive wheel
mounted rotatably on a support member. Each drive wheel assembly is mounted onto a
wheel mounting frame at the front end of the chassis, by means of a wheel assembly
mount. The wheel assembly mount allows the support member to pivot in a plane that is
10 generally parallel to the plane of the chassis. A suspension cylinder extends between the
wheel assembly mount and an end of the support member. The suspension cylinder
extends and/or retracts to move the support member in a plane that is generally
orthogonal to the plane of the chassis. This allows the carriage to be transformed from
one operating mode to another by adjusting the position of the wheel assembly. The
15 support member can be locked at various predetermined positions with respect to the
wheel mounting frame corresponding to towing, self-propelled and firing modes. In the
firing mode, the axis of each drive wheel extend generally in the radial direction relative
to the centre of the rotation of the chassis about a base plate. A DC motor provides
power to the drive wheels to provide fine adjustment in aiming the gun on the carriage in
20 the firing mode.

Figure 1