

5 **PERSONAL EMERGENCY DEVICE FOR LOWERING PEOPLE FROM**
 HIGH RISE OBJECTS (embodiments)

Abstract

10 The invention relates to means for rescuing people. The device for the
emergency lowering of a person from a high-rise object is fastened on the
person's back. The said device comprises an inflatable central toroidal
chamber having a membrane in which to arrange the person, the chamber
being connected on one side to inflatable spokes which, upon inflation, are
15 arrangeable in a cone and which are interconnected by inflatable
connectors, and being connected on the other side to an inflatable damping
structure which has a toroidal inflatable chamber which is likewise connected
by inflatable spokes to the central toroidal chamber. The toroidal inflatable
chamber of the damping structure has a diameter which is greater than the
20 diameter of the central toroidal chamber and is less than the diameter of the
base of the cone which is formed by spokes which are straightened out upon
inflation and are interconnected by connectors. An air-impermeable
perforated fabric is stretched between the spokes and toroidal chambers, or
the spokes together with the toroidal chambers are covered by air-
25 impermeable perforated protective coverings in order to form a conical
deceleration shield in the form of two truncated conical pyramids with a
common base in the central toroidal chamber zone. An independent gas-
filling source communicates with one of the toroidal inflatable chambers or
with one of the inflatable spokes, and the internal volumes of all the toroidal
30 chambers and spokes communicate with one another and form a single
closed volume.

FIG. 1