Claims:

1) A device for seismic isolation of a structure, the device comprising at least one support leg (2), constrained to the same structure, wherein the support leg comprises at least a support element or pad adapted to rest on a sliding surface (3) with a deformation, and wherein a contact area of the support element or pad, defined by the area of the support element or pad in contact with said sliding surface (3) has a variable extension that depends on the load resting on the support leg.

2) Seismic isolation device according to claim 1, characterized in that said sliding surface (3) is rigid and that said contact area set in contact with the latter has a variable extension that depends on the load resting on the support.

3) Seismic isolation device according to claim 2, characterized in that at least said support leg (2) comprises at least a support element or pad made of plastic or polymeric material.

4) Seismic isolation device according to claim 3, characterized in that the contact area of said support element or pad made of plastic polymeric material, in contact with said sliding surface (3) is not flat.

5) Seismic isolation device according to claim 4, characterized in that the contact area of said support element or pad (40) made of plastic polymeric material, in contact with said sliding surface (3) is convex.

6) Seismic isolation device according to claim 5, characterized in that the contact area of said support element or pad (40) made of plastic polymeric material, in contact with said sliding surface (3) has a plurality of convex areas.

7) Seismic isolation device according to claim 4, characterized in that the contact area of said support element or pad (41) made of plastic polymeric material, in contact with said sliding surface (3) is concave.

8) Seismic isolation device according to claim 7, characterized in that the contact area of said support element or pad (41) made of plastic polymeric material, in contact with said sliding surface (3) has a plurality of concave areas.

9) Seismic isolation device according to claim 4, characterized in that said support element or pad made of plastic or polymeric material is realized by means of a first pad (5) that is supported by a first supporting element (6), which is guided so as to slide vertically inside a second cylindrical supporting element (7) that in turn is integral to the support leg (2), is provided with a second pad (8) which has generally annular shape; the first supporting element (6) being axially constrained to said second cylindrical supporting element (7) by elastic means (9), together with the relative first pad (5).

10) Seismic isolation device according to claim 4, characterized in that said support element or pad made of plastic or polymeric material is realized by means of a first elastic pad (10), which is housed inside a rigid support element (11) in coaxial relation thereto, the first elastic pad having a spring function and the rigid support element being fastened to the support leg and equipped with a relative further annular pad (12).

11) Seismic isolation device according to claim 4, characterized in that said support element or pad made of plastic or polymeric material is made by a first elastic pad (10) which has a collar (14) providing for lateral containment of the material in the region of the sliding area.

12) Seismic isolation device according to claim 4, characterized in that the contact area of said support element or pad consists of a layer (15) of plastic or polymeric material that is integrally joined to the convex part of a layer or sheet (16) by which it is supported and sustained; said layer or sheet (16) being constrained to the support leg (2) in correspondence of its convex part, and being made of a resistant and elastically deformable material.

13) Seismic isolation device according to claim 4 or any of the previous claims, characterized in that said support element or pad made of plastic or polymeric material is made of polymeric plastic materials that have low value of the friction coefficient, high wear resistance, high load capacity even at high temperatures, such as by way of example UHMWPE, or ultra-high-molecular-weight polyethylene, or simple or filled PTFE, or PA6 or PVDF.