TOWERS WITH HIGH CAPACITY OF RESISTANCE AGAINST VIBRATIONS

Description:

There are many designs and structures for use in the construction of towers for telecommunications installations, wind energy, lighting, etc., although many of the known ones ultimately suffer from a fundamental technical problem: their adaptation to weather factors, seismic or similar, so that they have a high resistance capacity against vibrations caused by said factors, without implying a complex and expensive design. Thus, the present invention refers to a type of truncated pyramidal tower structure whose design allows optimal transmission of any applied load to the foundation by means of crossed helical slopes.

Keywords:
Tower, Edification, Telecommunications, Illumination

Sectors:
Engineering

Areas:
Mechanics, Industrial

Advantages:

Among the main advantages of the present invention are: • This type of structure solves the problem of high towers over confined spaces. • Its application is very useful when it comes to reducing expropriation, rent or material costs.

Uses and Applications:

The present technology is useful for the design of telecommunications towers, wind power, lighting, and the like, with greater resistance to vibrations.

Patent Number: ES2394355B1
Applicants: Universidad De Málaga
Inventors: Salvador Merino Cordoba, Javier Martinez Del Castillo, Gloria Gutierrez Barranco
Filing Date: 23/06/2011
Protection Level: National (Spain)
Processing Status: Spanish patent