

[Abstract]

Disclosed is a lightweight structural member based on a composite material, the structural member comprising: a first main plate; a second main plate disposed to be spaced a predetermined interval from the first main plate; a plurality of reinforcing plates which are arranged between the first main plate and the second main plate, and which have one or more bent parts; and core layers formed in the space between the first main plate and the reinforcing plate, the space between the second main plate and the reinforcing plate, and the space between the reinforcing plates that are adjacent to each other, wherein a plurality of column parts formed by the bent parts that are adjacent to each other and the core layers formed therebetween are formed at predetermined intervals so as to function as a plate stiffener.