Acoustic Baffle Suspension System, a suspended ceiling using the Acoustic Baffle Suspension system and a clip for use in same

Field of the invention

The invention relates to a system and its component parts for suspension of an acoustic baffle from a ceiling.

Background

Acoustic baffles that can be suspended from a ceiling are known in the art. Such baffles can be suspended parallel or perpendicular to the ceiling. The present invention concerns suspension methods for hanging acoustic baffles perpendicular to a ceiling. Examples of existing products are Rockfon® Fibral™ Multiflex Baffle and Rockfon® System Contour Ac Baffle™.

Various methods of suspension exist for attaching acoustic baffles to a ceiling.

NL8500374 shows a hook-type suspension arrangement. This requires a particular profile within the acoustic baffle itself, requiring additional processing steps in order to make the necessary profile within the baffle.

WO2017/220103A1 shows a suspension arrangement in which the uppermost edge of an acoustic baffle is provided with an inverted T-shaped slit that extends through the entire baffle, running between the two major faces of the baffle. A separate component must be inserted into this slit in order to enable installation of the baffle on a ceiling by e.g. a suspension wire which must connect to the separate component. Depending on the desired suspension method, a multitude of different components will be required. Furthermore, the construction of the acoustic baffle itself is somewhat complex, with a folding arrangement.

DE102015209761A1 describes a complex arrangement of a number of components necessary to suspend a single acoustic baffle. The suspension means involves suspension cables, cable clamps and other components. Using so many components increases production and installation costs.