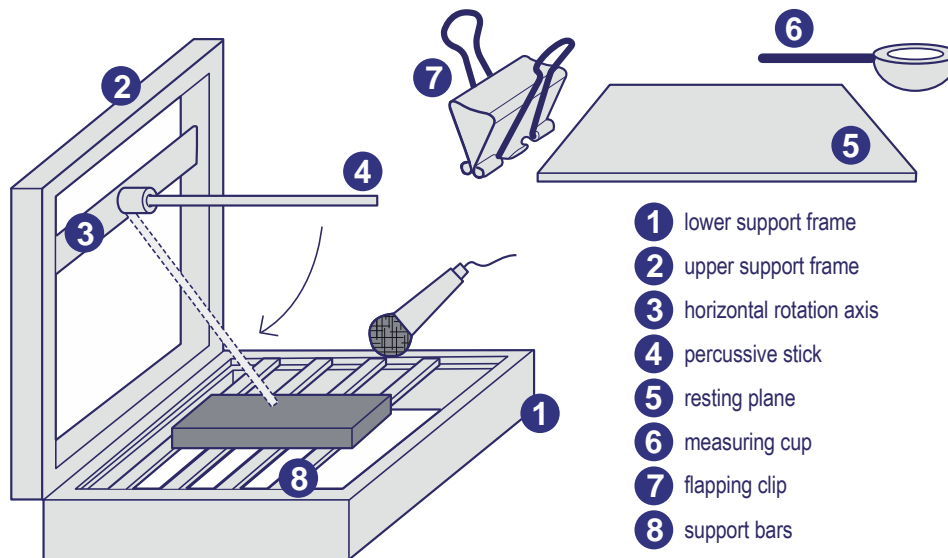


# SounBe® - Method and device for acoustic sensorial analysis of materials

SounBe is a methodology with an associated instrumentation in support of those who face the issue of sound design objects.

The invention provides a common method used for any mechanical sound description, later labelled by an adjective and collected in a database.

Therefore, it is possible to forecast the perception of the sound characterizing the object, by improving the quality of the final product (e.g. sound produced by a chair rolling on the floor).



IPC Codes

G01N-029/04\*

G01N-029/22

Keywords

Product design

Acoustic sensorial analysis

Sound description

Material samples

Toolkit



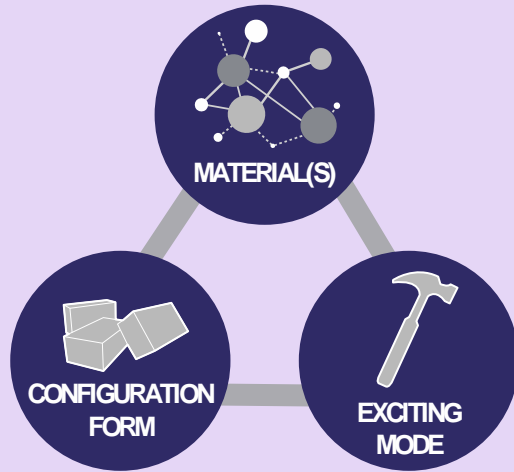
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# SounBe® - Method and device for acoustic sensorial analysis of materials

## Description

SounBe® device supports designers in the materials hyper-choice phase. It appears as a kit housed in a briefcase, and comprises a support frame and a plurality of accessories to make the material samples sound under normalized solicitations. The set of accessories comprises percussive sticks in different materials (polymer, wood, steel, glass, etc.), resting planes, a measuring cup for granular substances, a flapping clip to repeatably hold sheet materials (thin plates, fabrics, etc.) and a plurality of support bars.

It has been conceived as a support tool for designers, industrialists, manufacturers, students and to all those people facing with the theme of mechanical sound as a project requirement. Thanks to this methodology it is possible to create a common vocabulary and a shared sensory evaluation method for materials, based upon scientific, but also simple and comprehensible criteria. Specifically, SounBe® allows to repeat the solicitation excluding human variability.



## Applications

- Food
- Packaging
- Luxury goods
- Automotive, Planes, Trains
- Transportation in general (from the car doors to luggages...)
- Built environment

## Advantages

- Pointing out the “product sound mistakes”
- Collecting easily adoptable meta-projectual indications
- Defining new product sound identities
- Managing/controlling the product sound
- Customize the sound according to specific Customers’ needs

