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Machinery Base Construction

Technology fields referring to this new type

- 5 The machinery base construction created from this invention is referred to a kind of processing facility's base construction with more stiffness and better stabilization than the base plates of various processing facilities.

Previous technology

- 10 The machinery base constructions used in the past were all made of steel. The stiffness was lesser and the surrounding micro-vibration might be magnified by the base's resonance when it was used. Such would cause errors to the outcome generated from implementing a machine of high precision; moreover, it would spoil the outcome, and even worse, result in distortion.

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Contents of this new type

Enhancing the base's stiffness and absorbing micro-vibration are main purposes of this creative work, which is applicable for various processing machinery of every plant.

- 20 The second purpose of this creative work is to prevent the base plate from distorted when it is under implementation or further process, because the frame structure is built by organic molding.

Implementing methods

- 25 Please refer to Diagram 1 to 3. The frame structure (11) of the base (10) is an organic molding structure (11) with hollow interior and is made of hard material. Such

frame structure is composed of multiple minor cases (111). Every minor (111) case keeps a fitting distance from another (111) and is connected with another by multiple proper-thick and hard bar materials (121) vertically, horizontally and perpendicularly; thus in the interior space of such frame structure (11) is constructed of a sequential
5 skeleton (12), then pour cement (13) into the interior of such structure (11). When cement (13) is solidified as a unity with the frame structure (11), the skeletons (12) are wrapped in the cement (13) thoroughly.

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What is Claimed is

1. A type of machinery base construction, including:

i) an organic molding frame structure, with hollow interior, made of hard material;

5 ii) a sequential skeleton composed of multiple minor cases connected by multiple proper-thick and hard bar materials vertically, horizontally and perpendicularly; and

iii) cement, poured into such frame structure and solidified as a sequential unity of organic mold.

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2. The machinery base construction, as specified in Article 1 of Patent Claim, is constructed of multiple minor cases of which each one keeps a fitting distance from another.

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