

ABSTRACT OF THE DISCLOSURE**A METHOD AND APPARATUS FOR IMPROVEMENT OF THE
MECHANICAL PROPERTY OF NON-SINTERING BRICK**

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Apparatus for improvement of non-sintering brick manufacturing process comprises of a set of magma production plant integrally linked with adobe press machine. The magma production plant includes two sets of raw material feeding hopper, a preliminary crusher, an aggregate dehumidification turner, a secondary crusher and a vibrating sieve to
10 regulate aggregate's chemical and physical property and couple with two sets of agglomerant feeder, a coercive pug mill, a hygrometer, water sprinkle, a poly pug mill and programmable logic controller to accomplish the production of magma according to technical specification prescribed by ingredient designed for specific brick designation. Also an adobe press machine of 4 beam/4 column structure with downward pressurising
15 pattern include a multiple top mould arm attached to an elevated mould frame beam, stationary multiple bottom arms attached to base block of the adobe press machine to accomplish the multistage bi-directional suppression of magma crammed inside the mould cavities resulting in consummating of internal structure of adobe and strengthening the mechanical property of brick. The method for strengthening the
20 mechanical property of brick include ingredient of poly agglomerant designed for specific brick designation, regulating the chemical and physical property of raw aggregate, such as soil to satisfy the ingredient of poly agglomerant, and multistage bi-directional suppression pattern of adobe designed for specific brick designation.

(FIGURE 1 IS SUGGESTED FOR PUBLICATION)