

ABSTRACT OF THE DISCLOSURE

METHOD FOR MANUFACTURING MOLDED MATERIALS
SOLIDIFIED BY SULFUR AND APPARATUS USED IN THE METHOD

There is disclosed a method for manufacturing molded materials solidified by sulfur, comprising bringing the water content of a solid raw material to be mixed with sulfur, such as slag and dust resulting from steel-making, to 3% by weight or below, heating and kneading the mixture of raw materials including molten sulfur at 119 to 159 °C, to cause the sulfur to penetrate into pore spaces on the solid raw material, thereby preparing a fluid kneaded mixture, and then molding the mixture into a prescribed shape. There is also disclosed an apparatus used in the method. According to the method, slag and dust resulting from steel-making, etc. is solidified with a melted sulfur thereby, enabling solidified and molded materials to be produced industrially, with preventing the generation of sulfurous acid gas, which materials' performance, such as physical strength, and quality are constant and high, and harmful heavy metals or the like will not ooze out of the materials.

Figure 1