

ABSTRACT

A pretreatment mixing and stirring device,
arranged at a stage prior to a slurry formation mixing and
stirring device which forms a gypsum slurry by kneading a
5 calcined gypsum and water, and performing a pretreatment
by mixing a calcined gypsum with one or more kinds of
additives selected from liquids and powders, comprising:
a cylindrical housing having a top plate, a bottom
plate arranged to oppose to the top plate, a side plate
10 arranged between the top plate and the bottom plate, and a
mixing and stirring region where the calcined gypsum and
the additive are mixed and stirred in an interior
surrounded by the top plate, the bottom plate, and the
side plate;
15 a disk-shaped rotating plate arranged inside the
housing;
a rotating drive shaft, penetrating the top plate or
the bottom plate of the housing, and coupled to the
rotating plate;
20 a calcined gypsum supply port, arranged in the top
plate, and configured to supply the calcined gypsum to the
mixing and stirring region; and
an additive supply port, arranged in one of or both
of the top plate and the side plate, and configured to
25 supply the additive to the mixing and stirring region,
is provided.

FIG. 1