Fig. 1

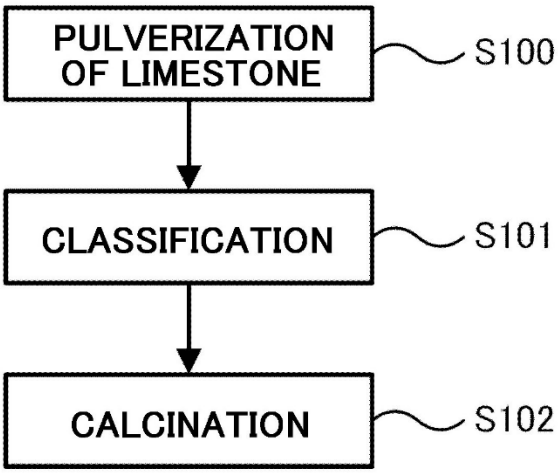
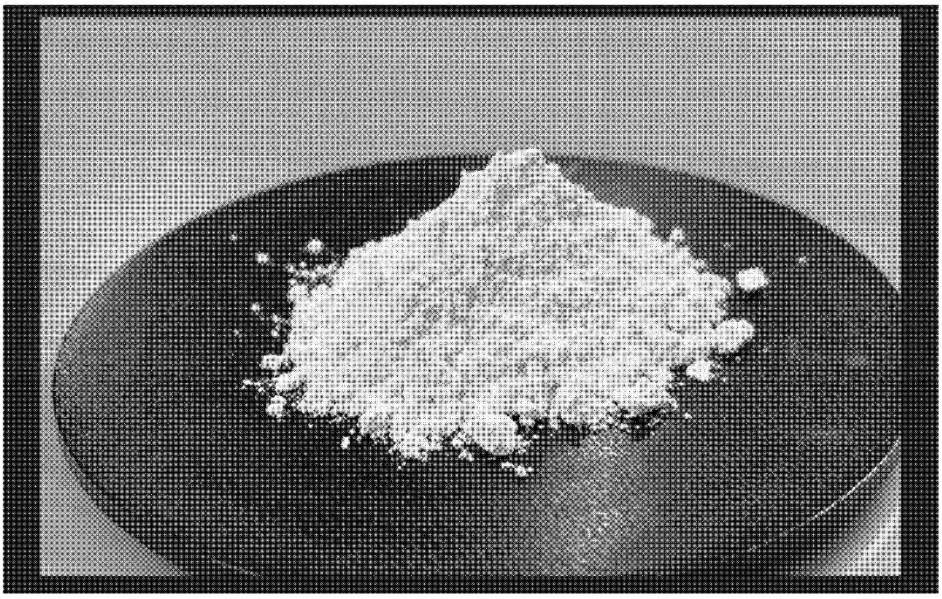
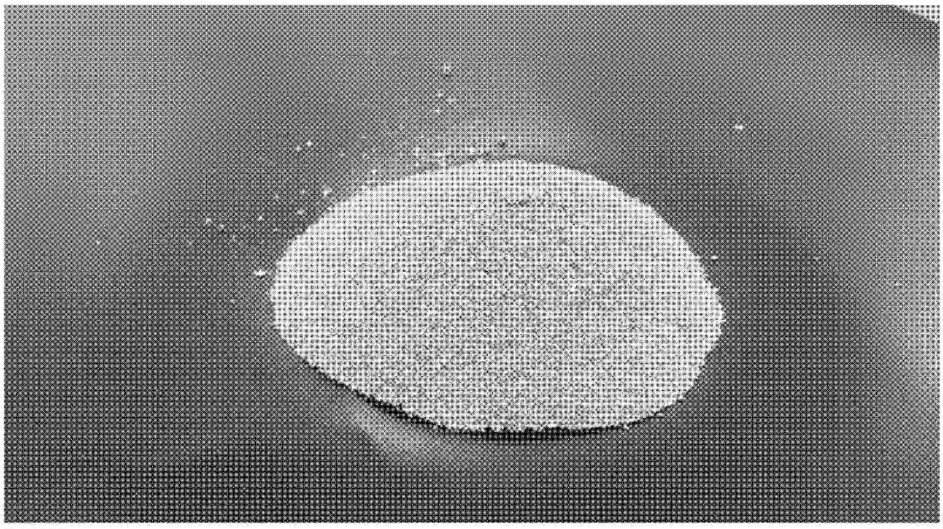

PULVERIZATION OF LIMESTONE
S100
CLASSIFICATION
S101
CALCINATION
S102

Fig. 2

(a)



(b)



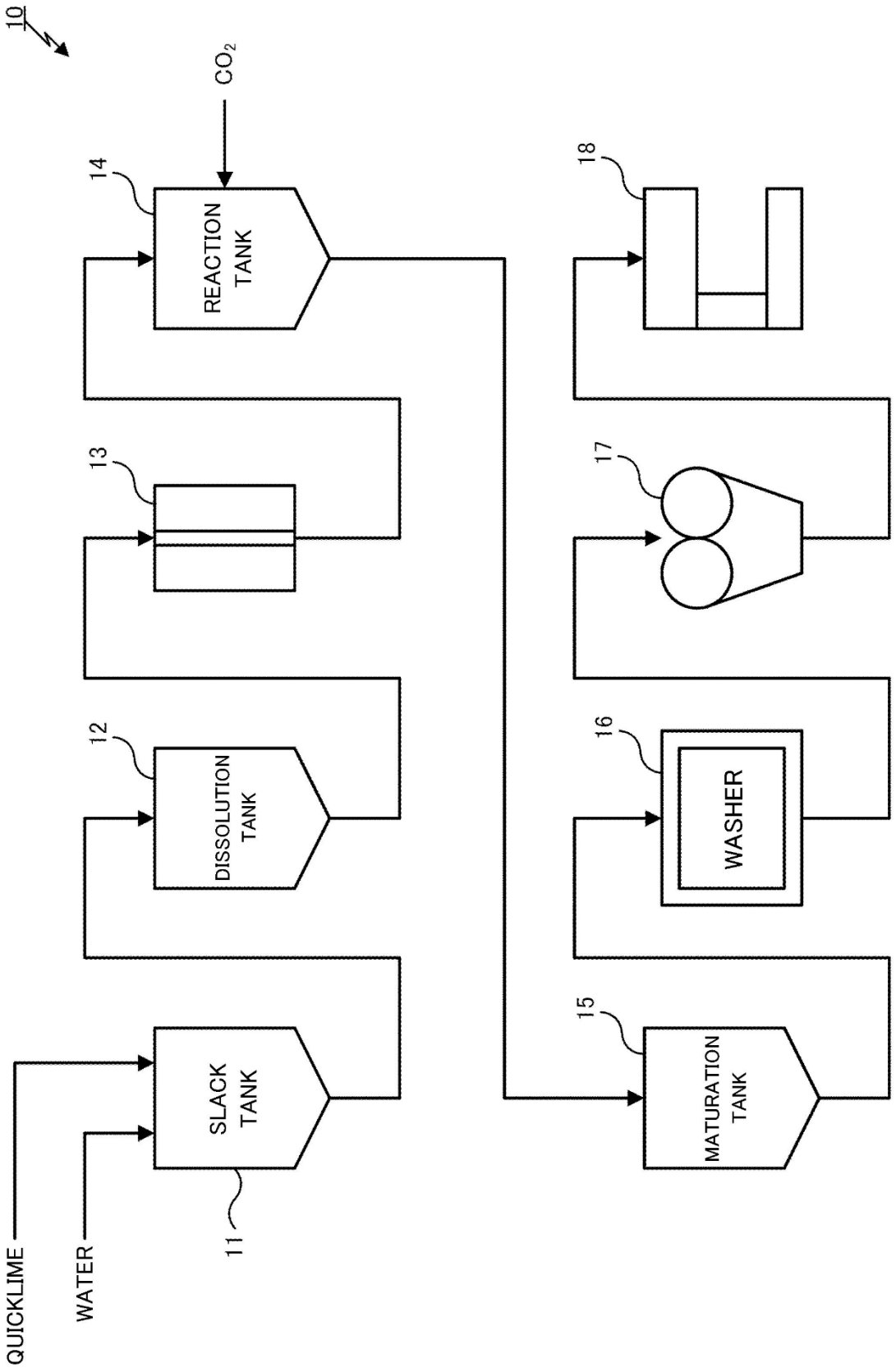

10
CO_2
14
REACTION TANK
18
13
17
12
DISSOLUTION TANK
16
WASHER
QUICKLIME
WATER
SLACK TANK
11
15
MATURATION TANK

Fig. 3

Fig. 4

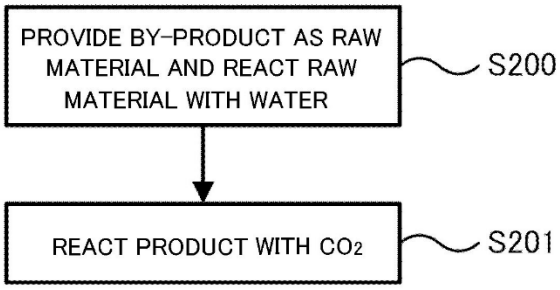

PROVIDE BY-PRODUCT AS RAW MATERIAL AND REACT RAW MATERIAL WITH WATER
S200
REACT PRODUCT WITH CO_2
S201

Fig. 5

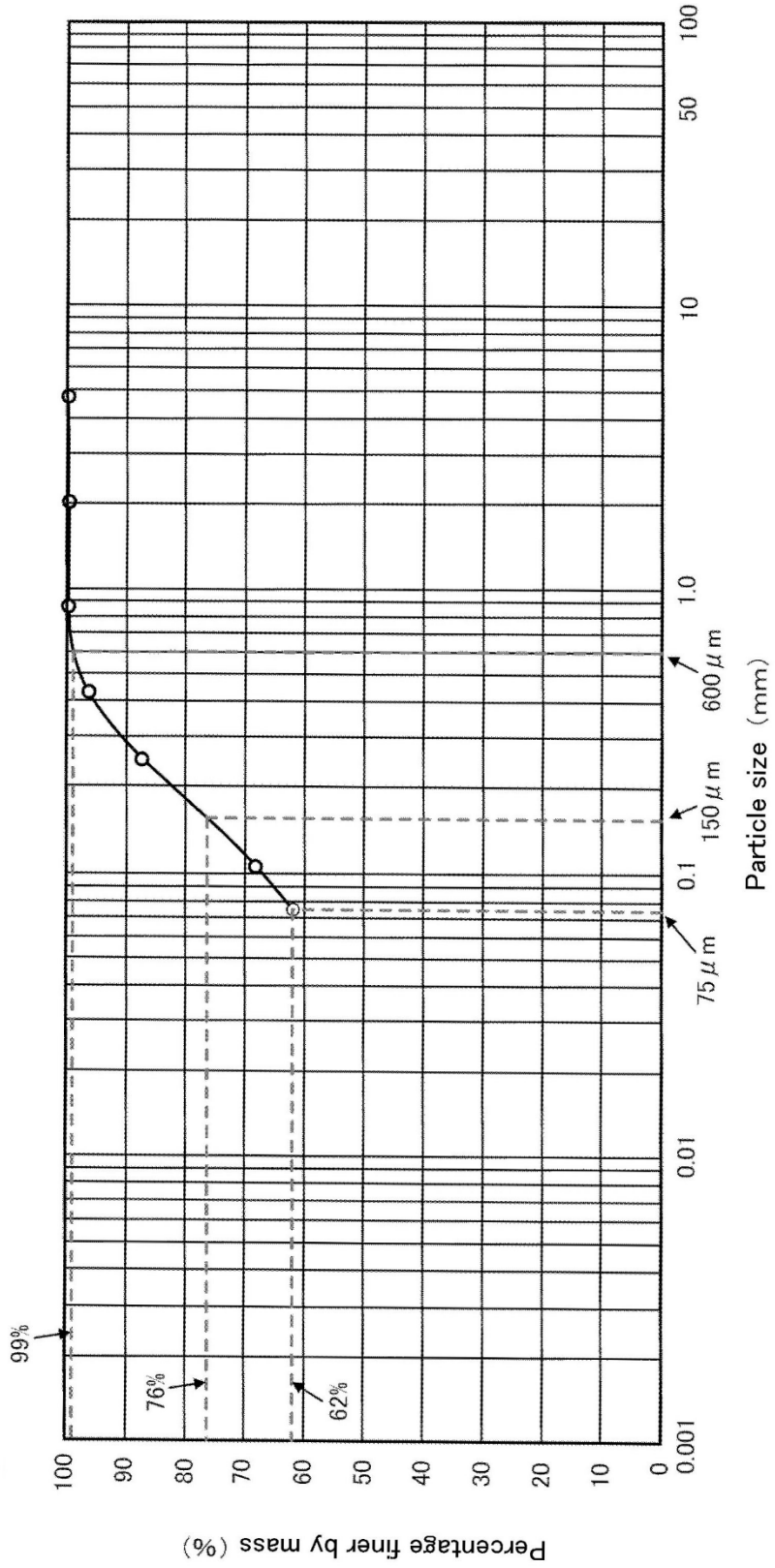
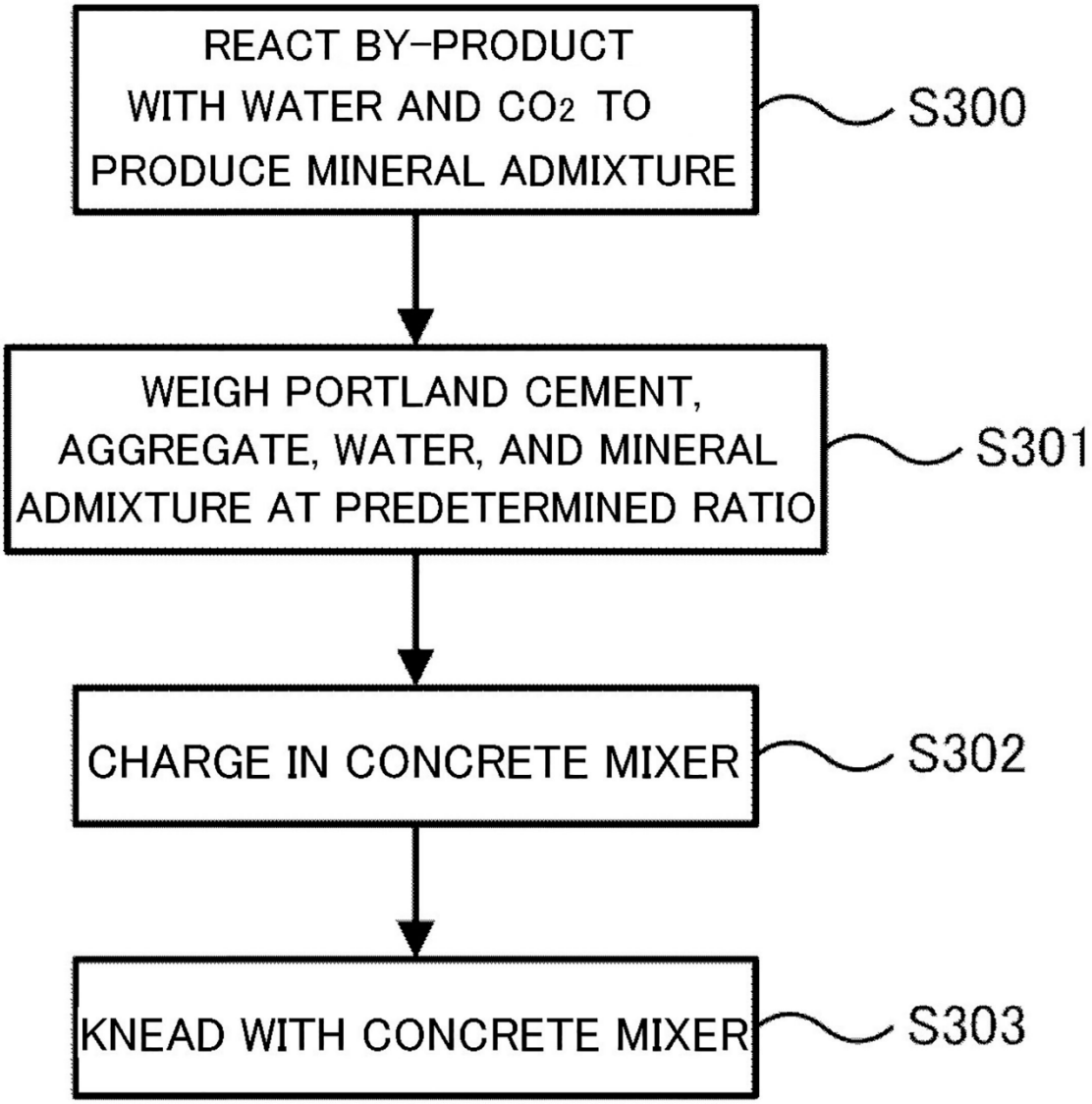

Percentage finer by mass (%)
100
90
80
70
60
50
40
30
20
10
0
99%
76%
62%
0.001
0.01
0.1
1.0
10
50
100
75 μm
150 μm
600 μm
Particle size (mm)

Fig. 6


REACT BY-PRODUCT WITH WATER AND CO_2 TO PRODUCE MINERAL ADMIXTURE
S300
WEIGH PORTLAND CEMENT, AGGREGATE, WATER, AND MINERAL ADMIXTURE AT PREDETERMINED RATIO
S301
CHARGE IN CONCRETE MIXER
S302
KNEAD WITH CONCRETE MIXER
S303