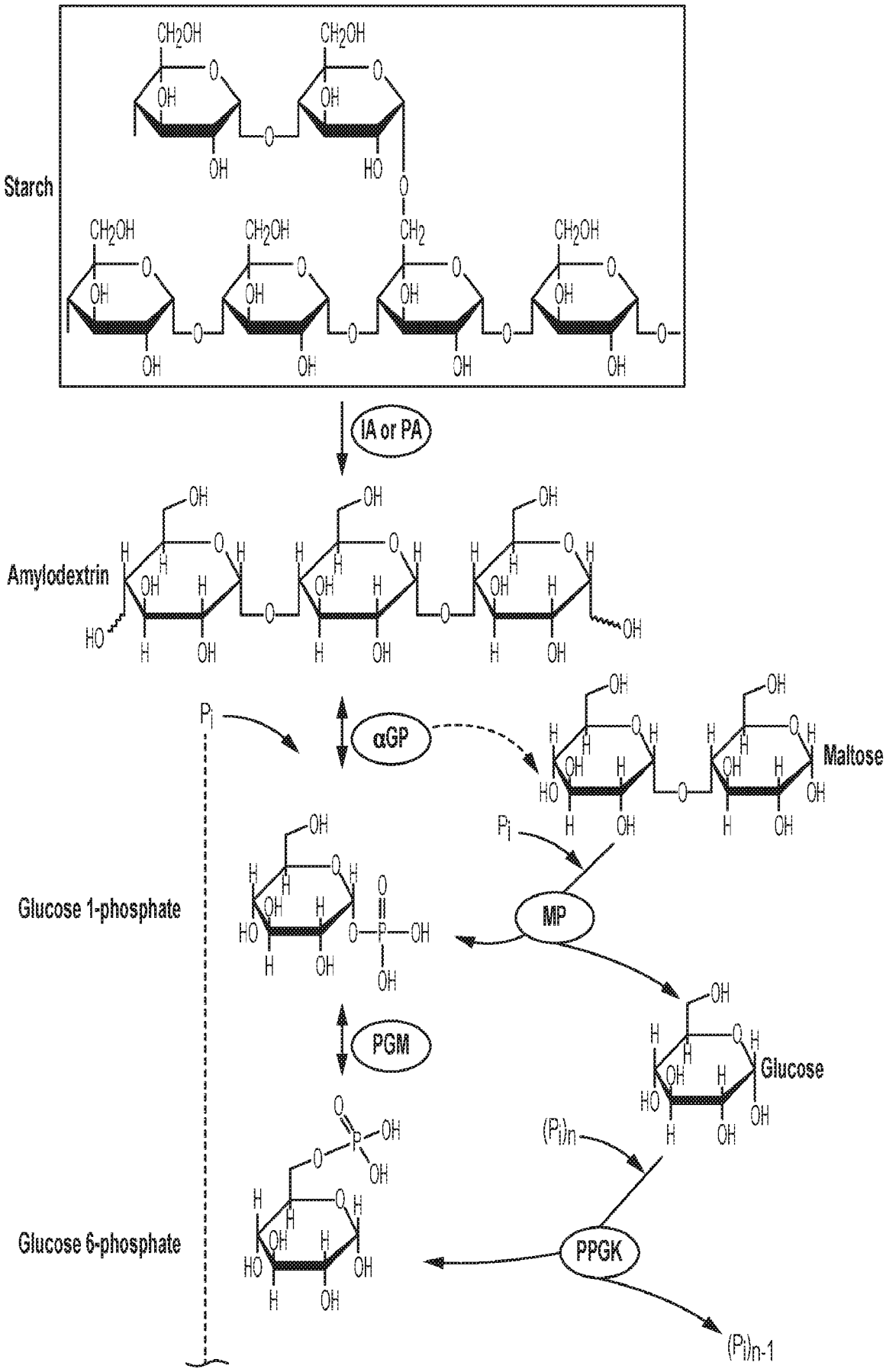

Starch
IA or PA
Amylodextrin
Pi
αGP
Maltose
Glucose 1-phosphate
MP
PGM
Glucose
(Pi)n
Glucose 6-phosphate
PPGK
(Pi)n-1

FIG. 1

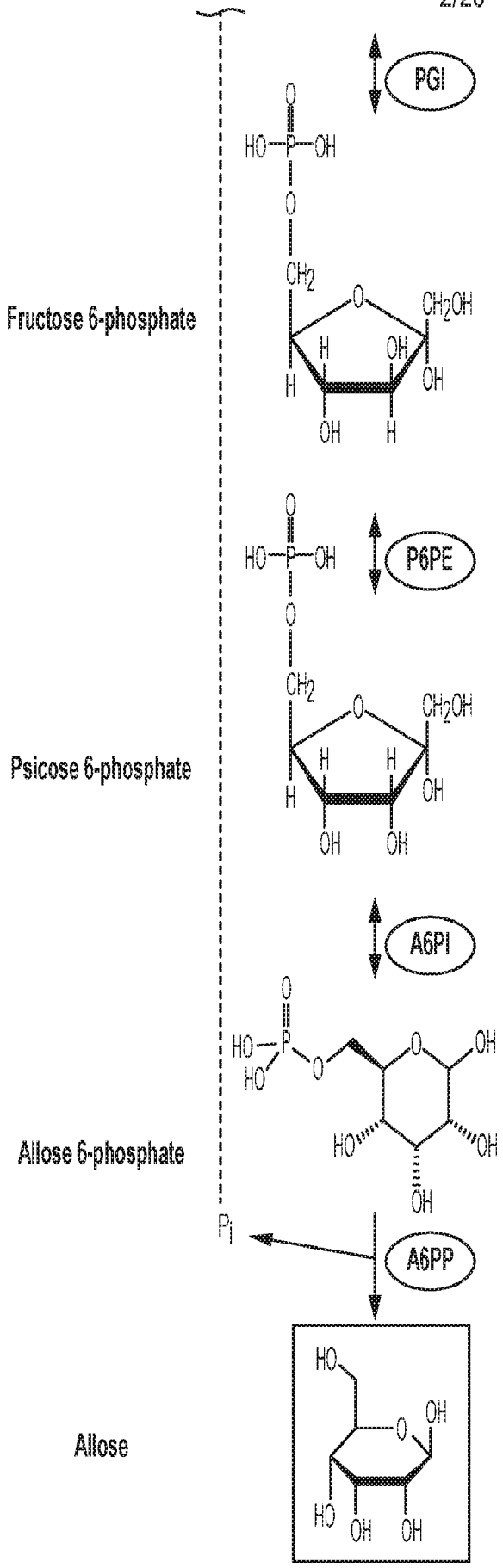


FIG. 1 continued

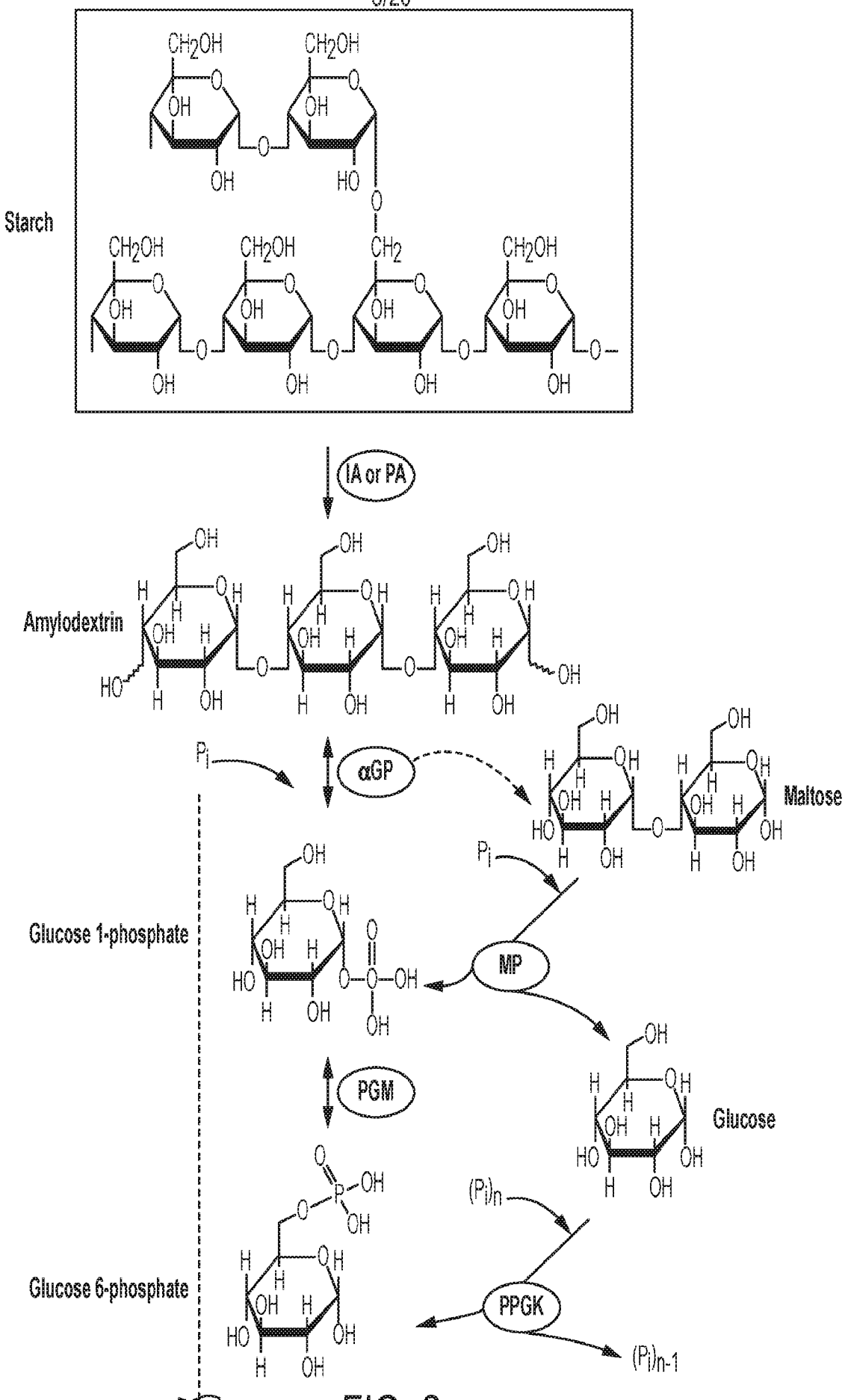

Starch
IA or PA
Amylodextrin
Pi
αGP
Maltose
Pi
Glucose 1-phosphate
MP
PGM
Glucose
(Pi)n
Glucose 6-phosphate
PPGK
(Pi)n-1

FIG. 2

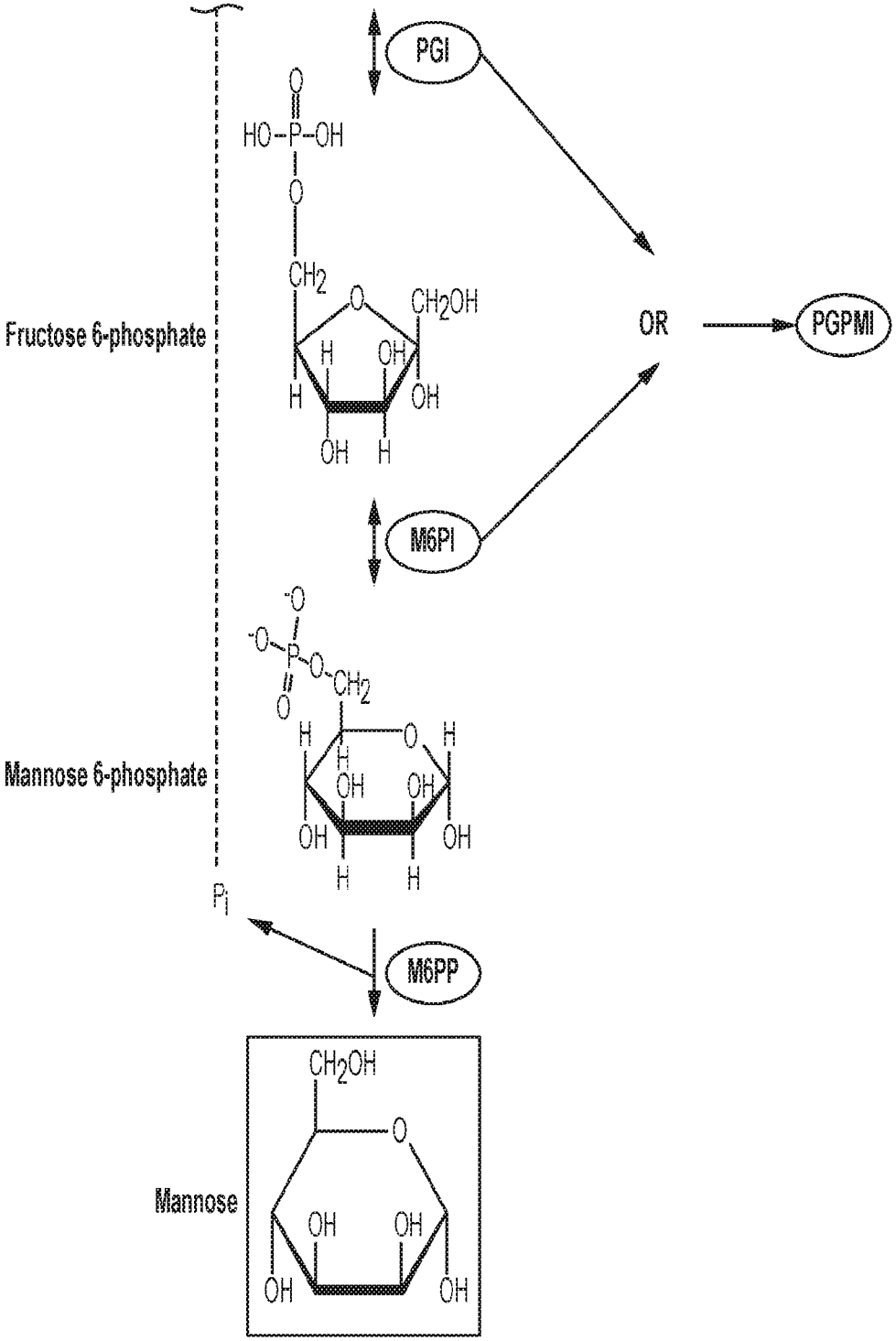


FIG. 2 continued

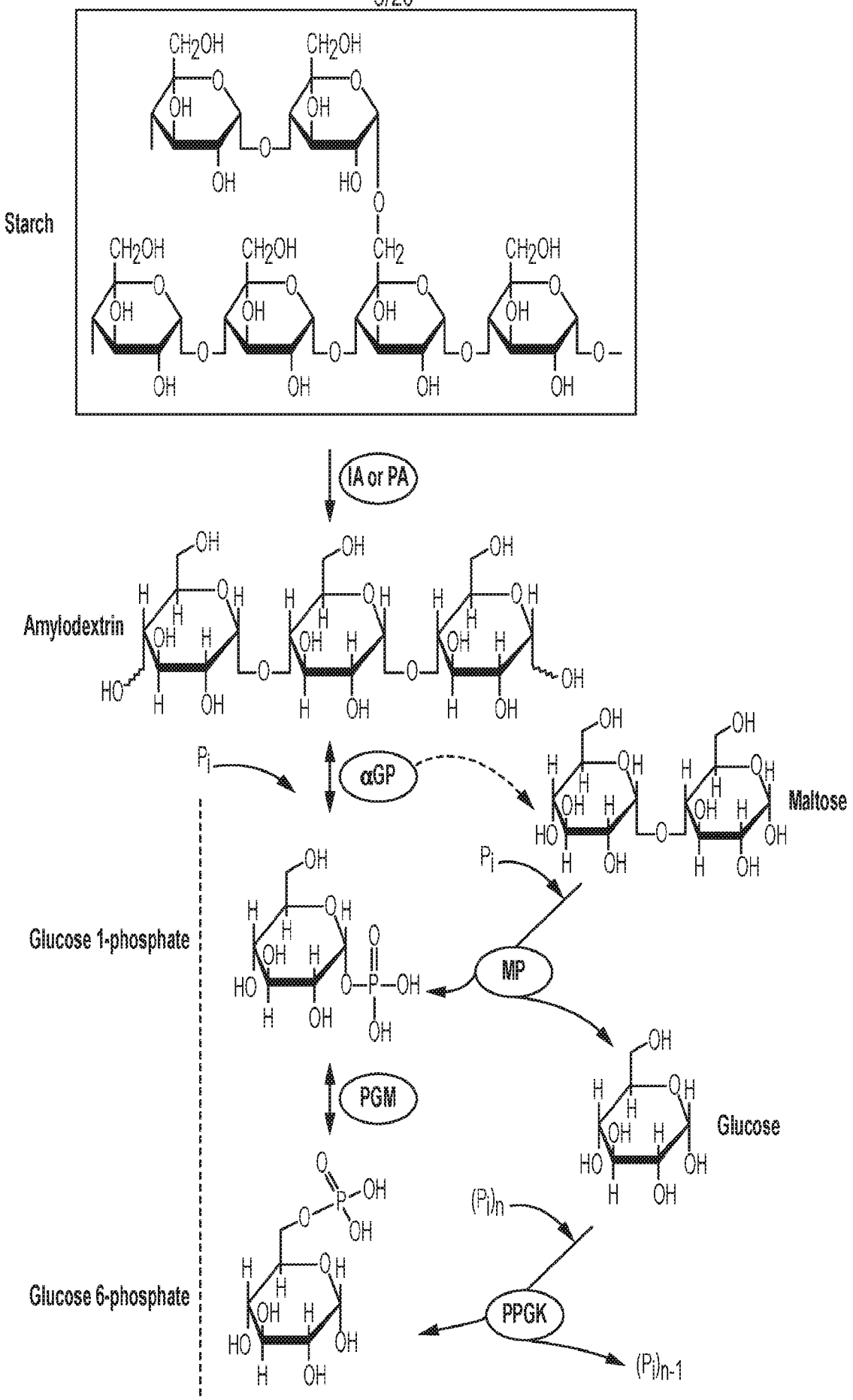

Starch
IA or PA
Amylodextrin
Pi
αGP
Maltose
Pi
Glucose 1-phosphate
MP
PGM
Glucose
(Pi)n
Glucose 6-phosphate
PPGK
(Pi)n-1

FIG. 3

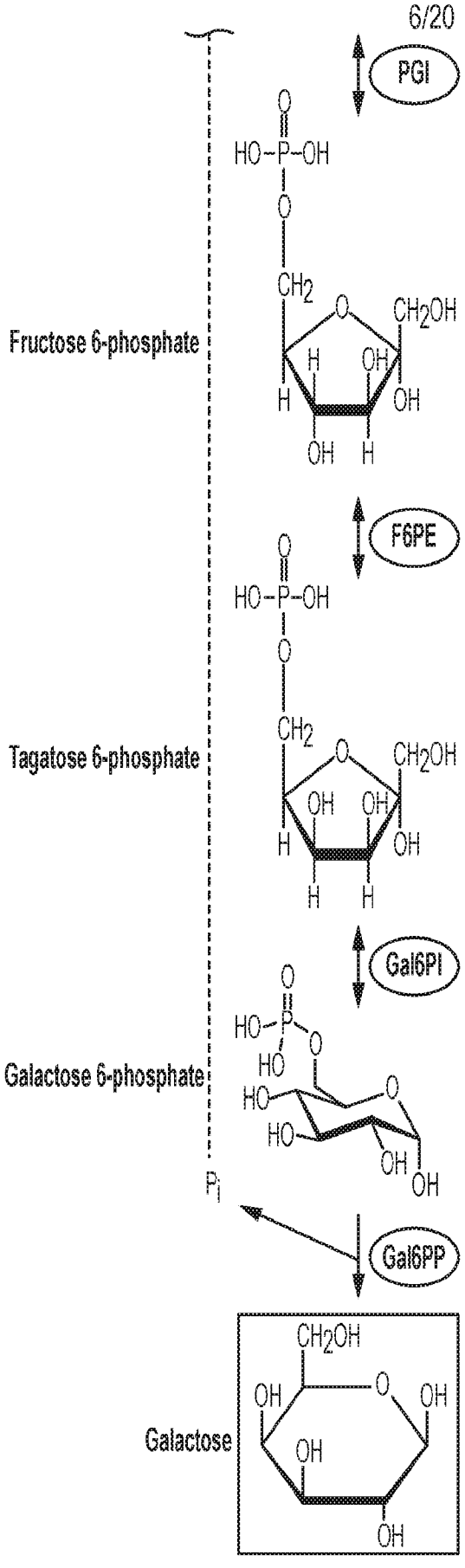


FIG. 3 continued

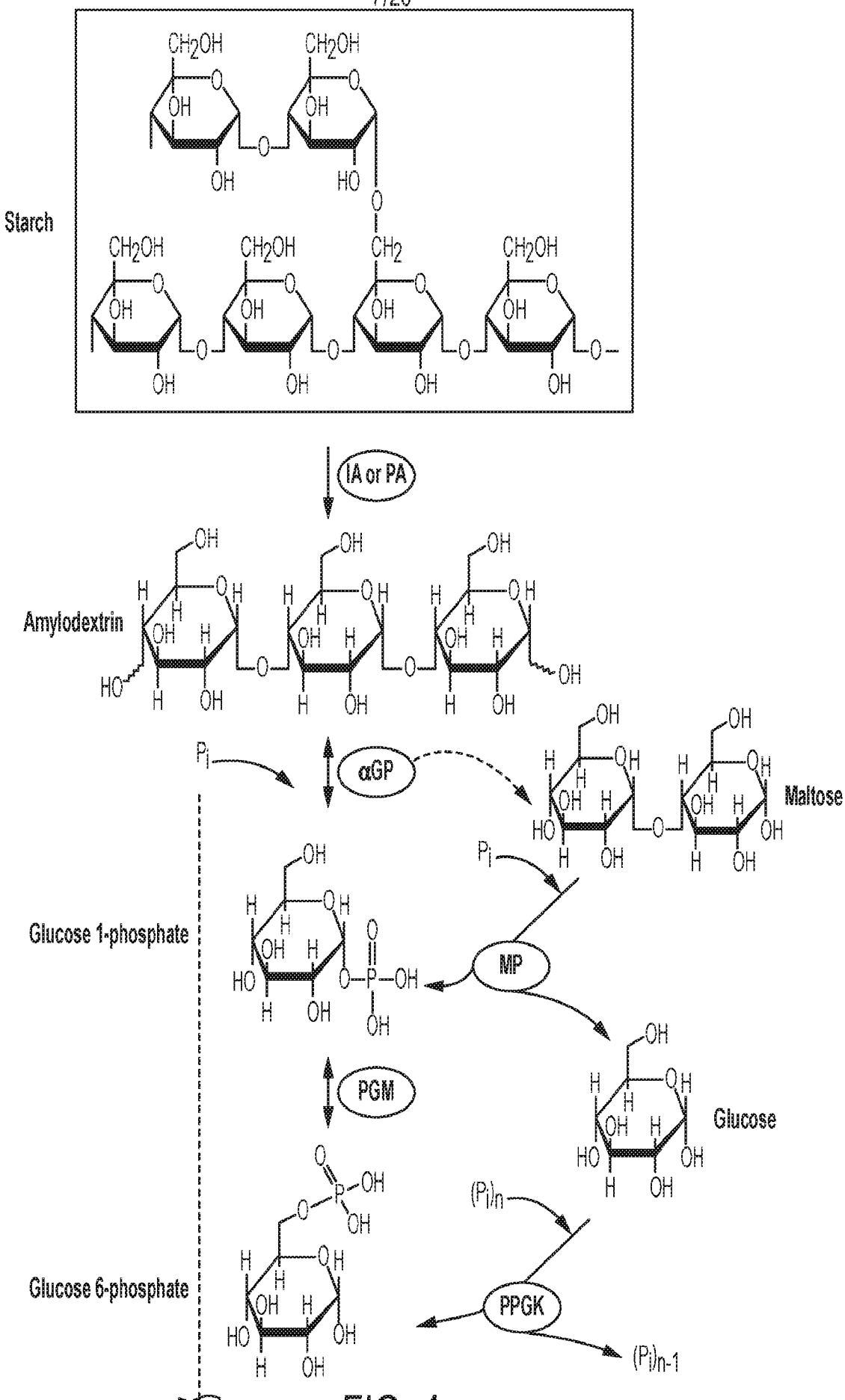

Starch
IA or PA
Amylodextrin
Pi
αGP
Maltose
Pi
Glucose 1-phosphate
MP
PGM
Glucose
(Pi)n
Glucose 6-phosphate
PPGK
(Pi)n-1

FIG. 4

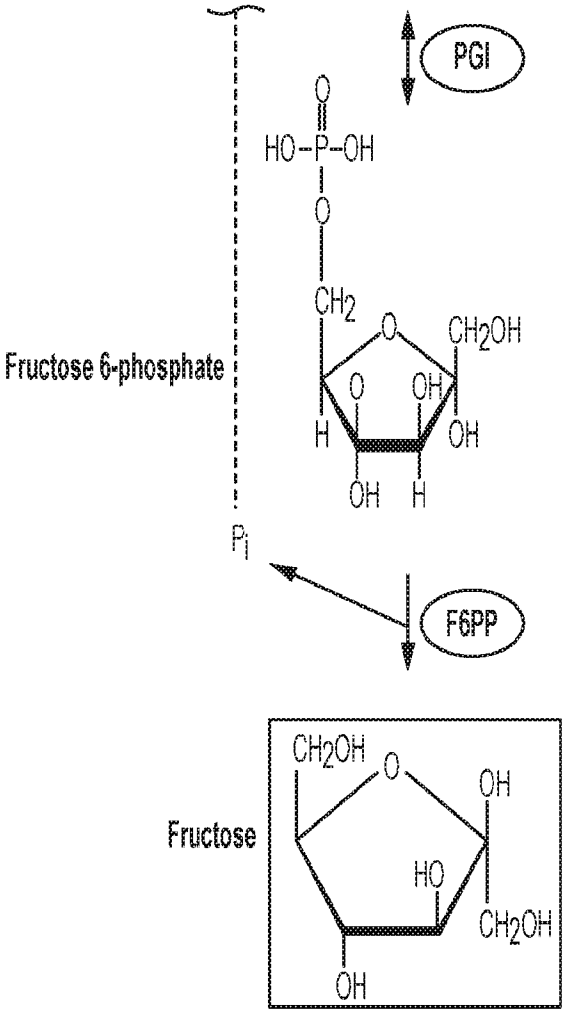


FIG. 4 continued

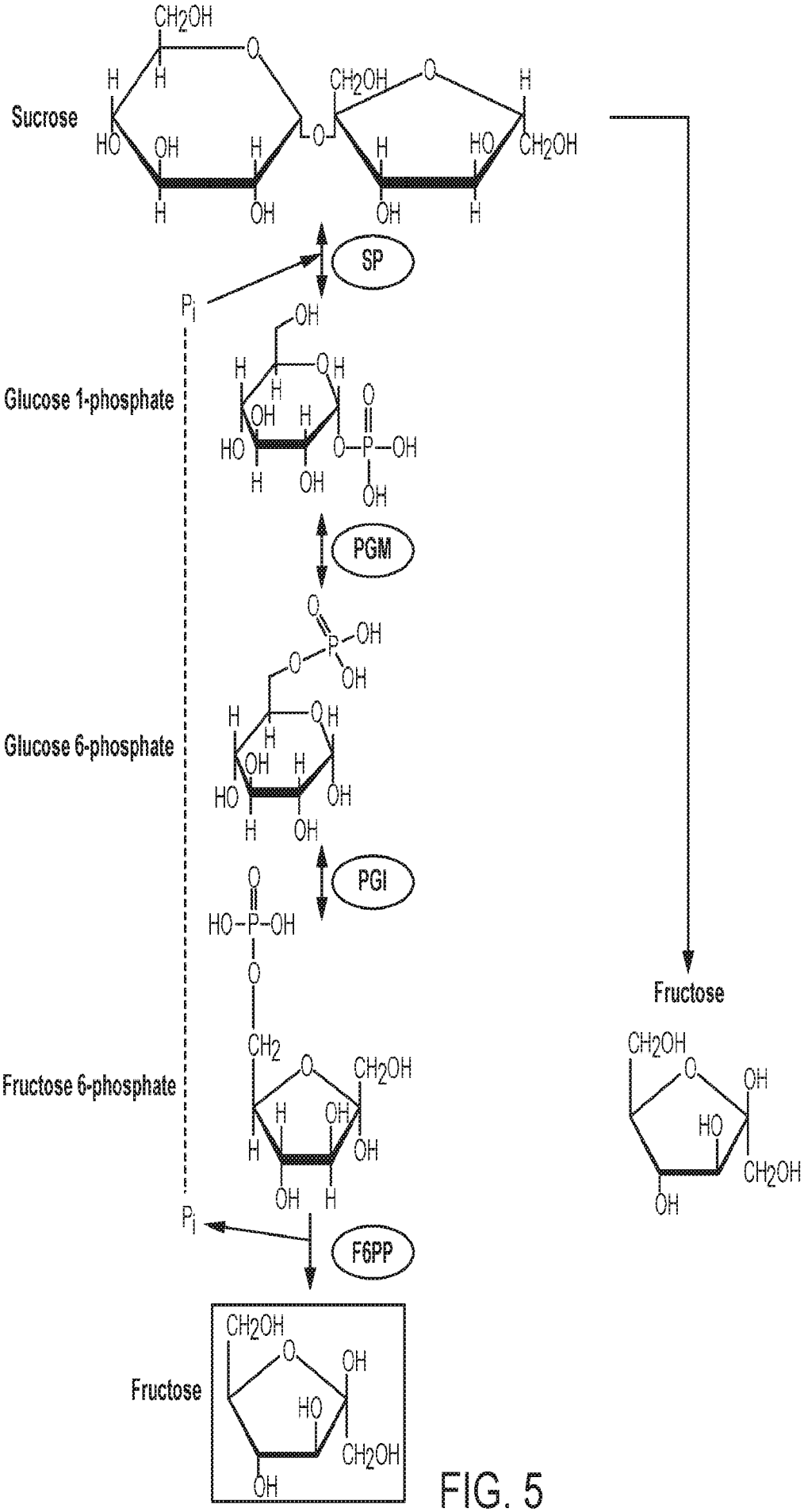

Sucrose
SP
Pi
Glucose 1-phosphate
PGM
Glucose 6-phosphate
PGI
Fructose 6-phosphate
Pi
F6PP
Fructose
Fructose

FIG. 5

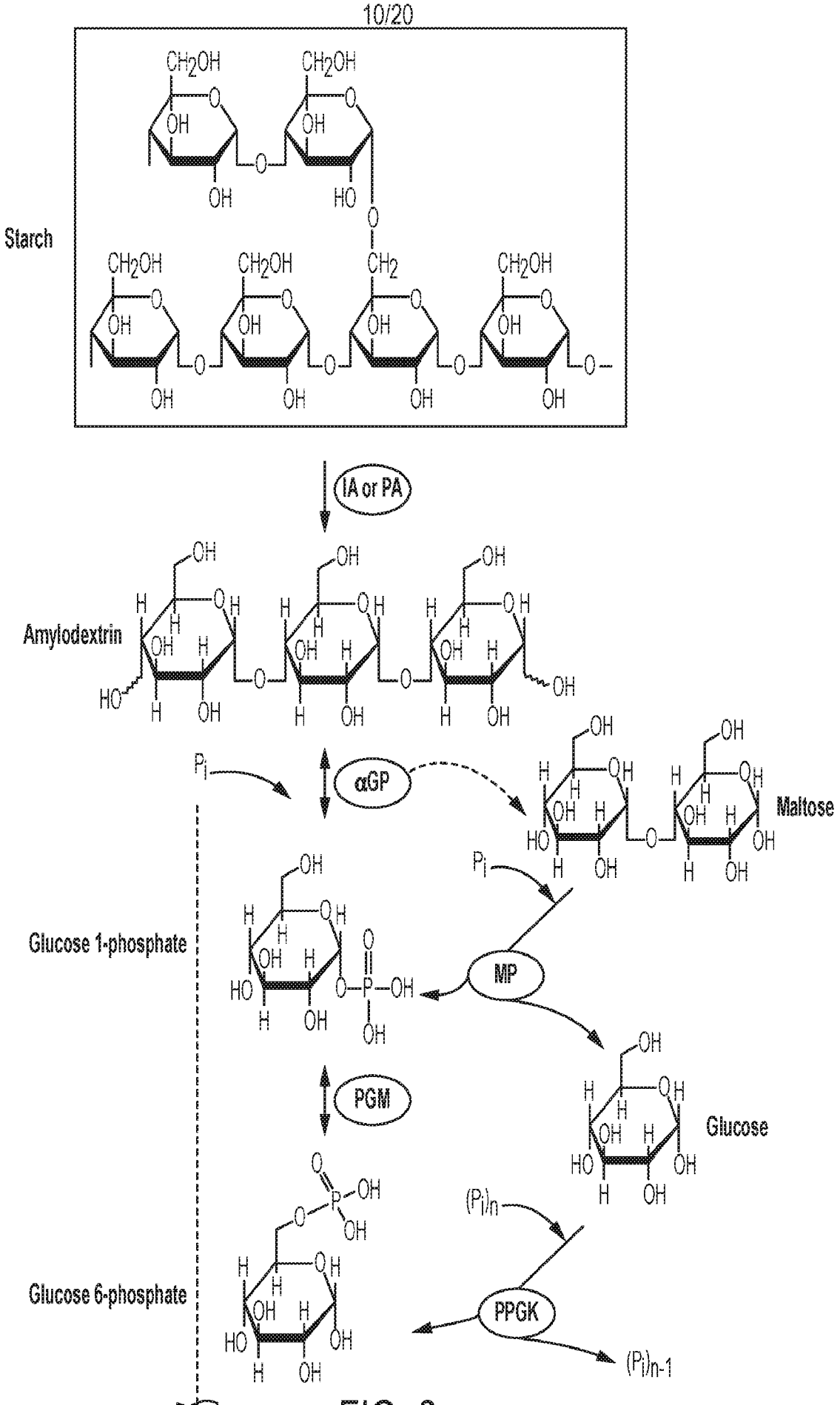

Starch
IA or PA
Amylodextrin
Pi
αGP
Maltose
Pi
Glucose 1-phosphate
MP
PGM
Glucose
(Pi)n
Glucose 6-phosphate
PPGK
(Pi)n-1

FIG. 6

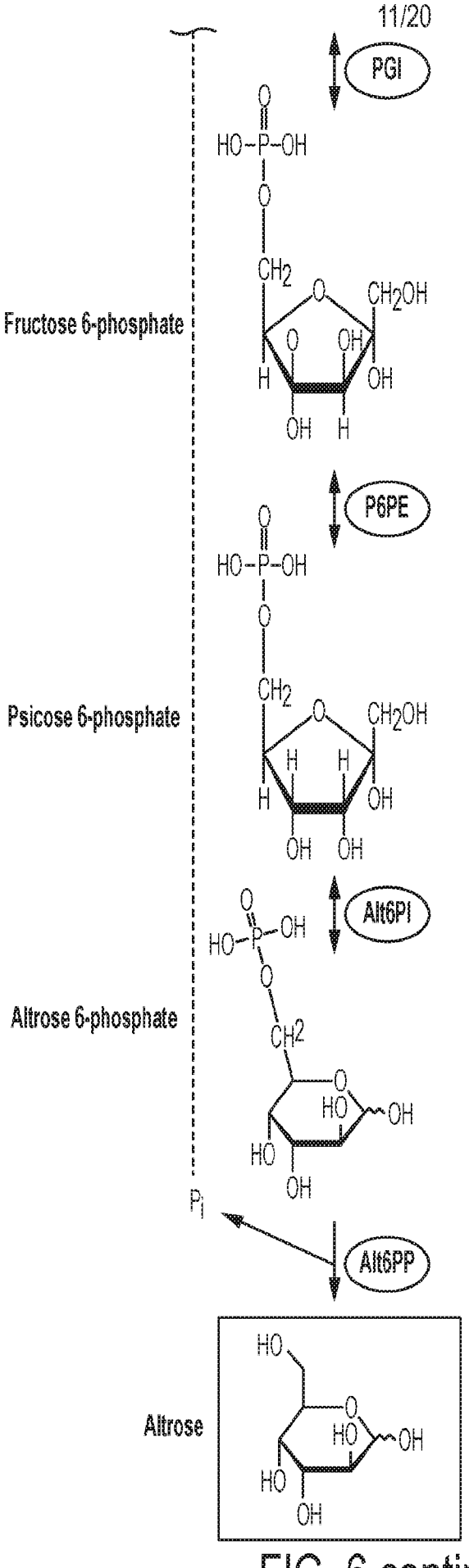


FIG. 6 continued

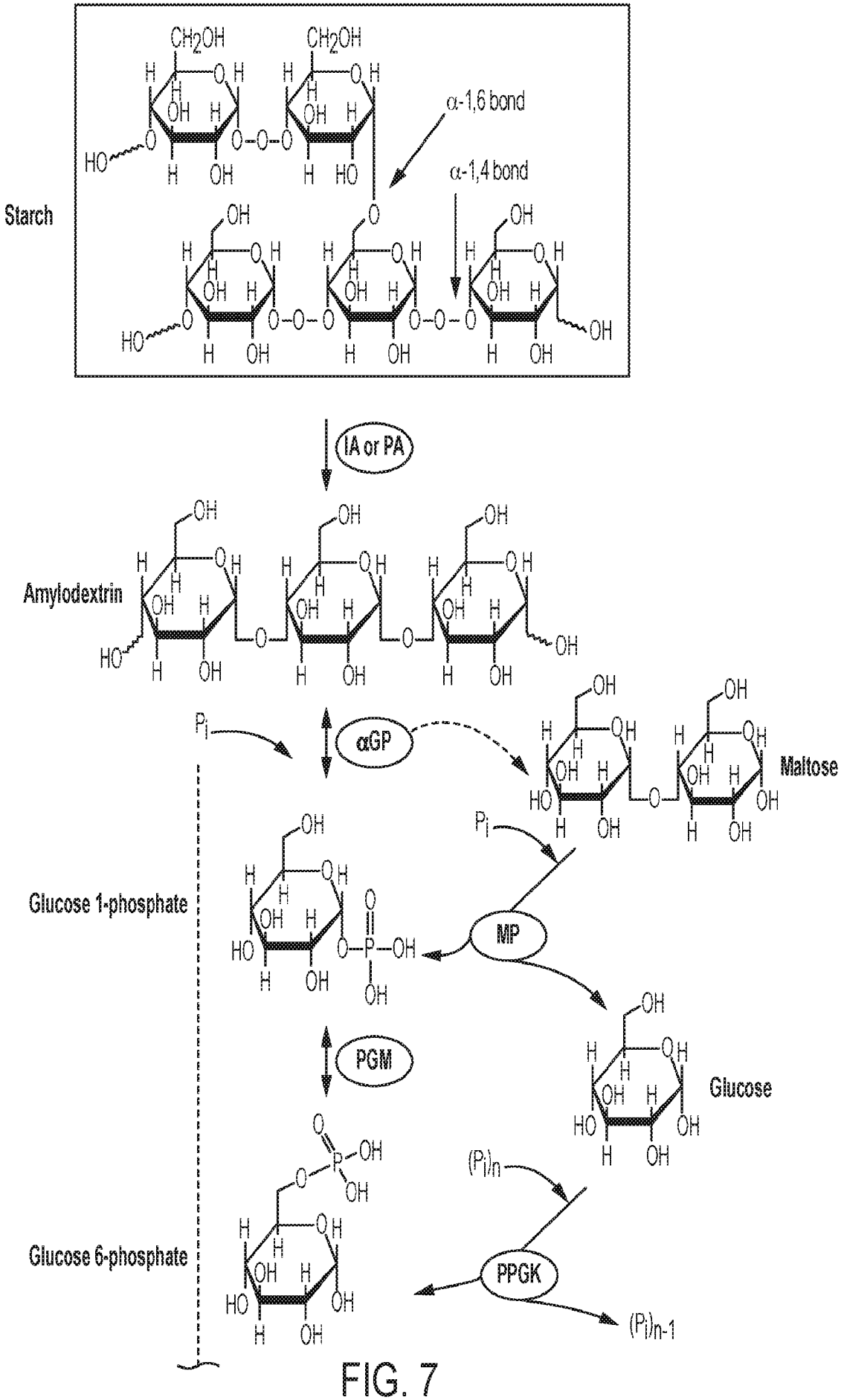

Starch
α-1,6 bond
α-1,4 bond
IA or PA
Amylodextrin
Pi
αGP
Maltose
Glucose 1-phosphate
MP
PGM
Glucose
Glucose 6-phosphate
(Pi)n
PPGK
(Pi)n-1

FIG. 7

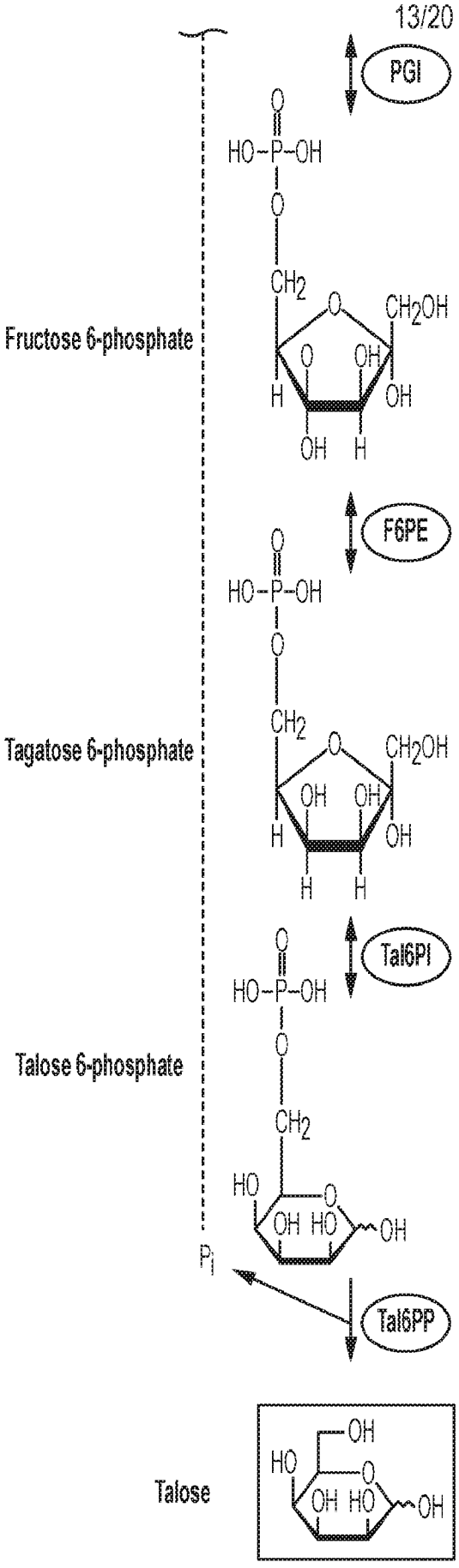


FIG. 7 continued

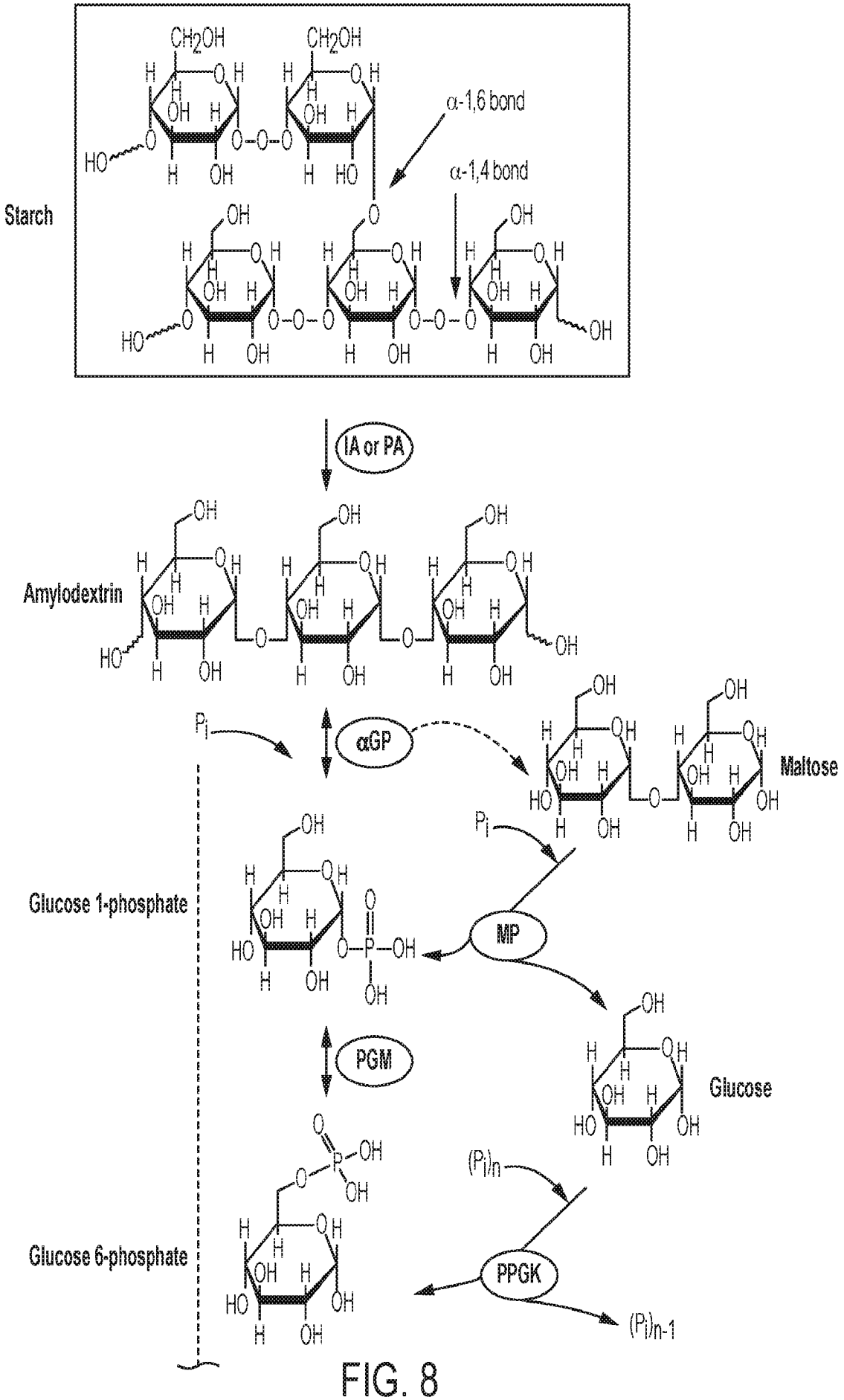

Starch
α-1,6 bond
α-1,4 bond
IA or PA
Amylodextrin
Pi
αGP
Maltose
Glucose 1-phosphate
MP
PGM
Glucose
Glucose 6-phosphate
(Pi)n
PPGK
(Pi)n-1

FIG. 8

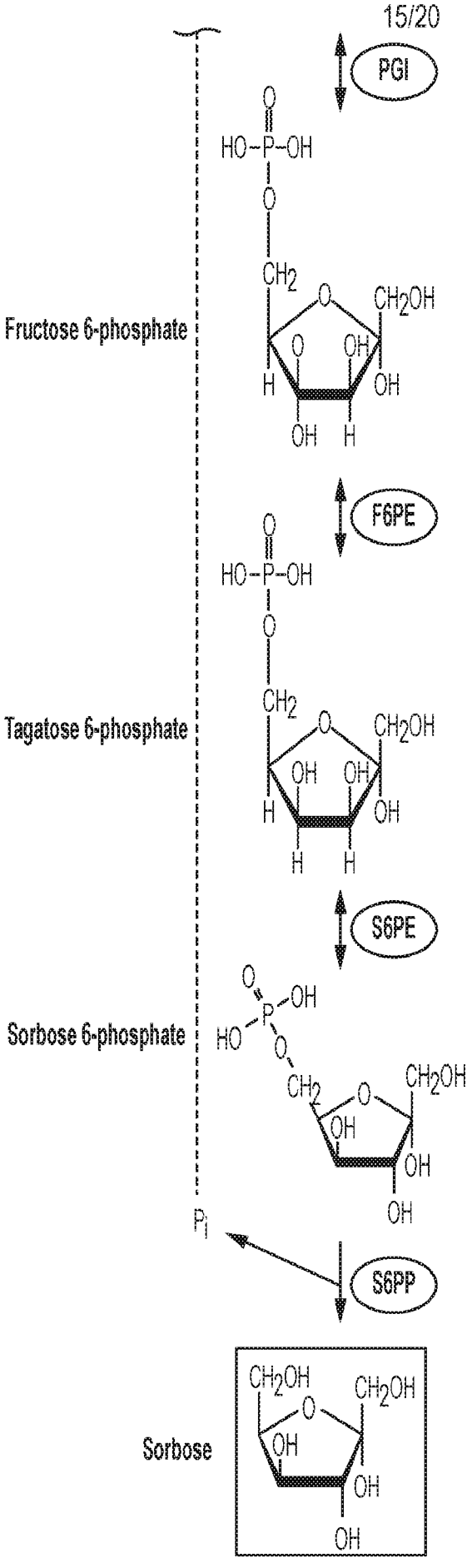


FIG. 8 continued

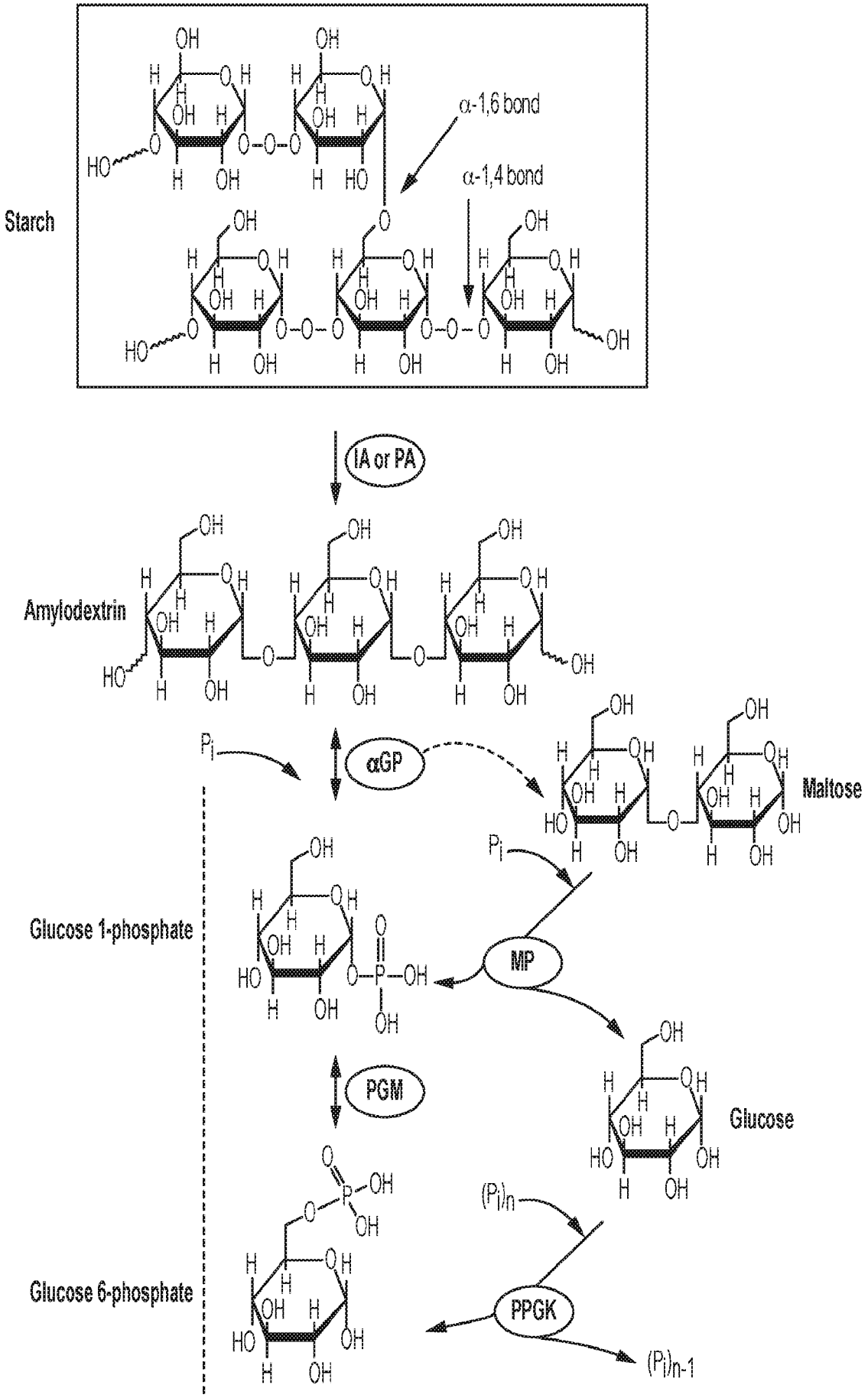

Starch
α-1,6 bond
α-1,4 bond
IA or PA
Amylodextrin
Pi
αGP
Maltose
Glucose 1-phosphate
MP
PGM
Glucose
Glucose 6-phosphate
(Pi)n
PPGK
(Pi)n-1

FIG. 9

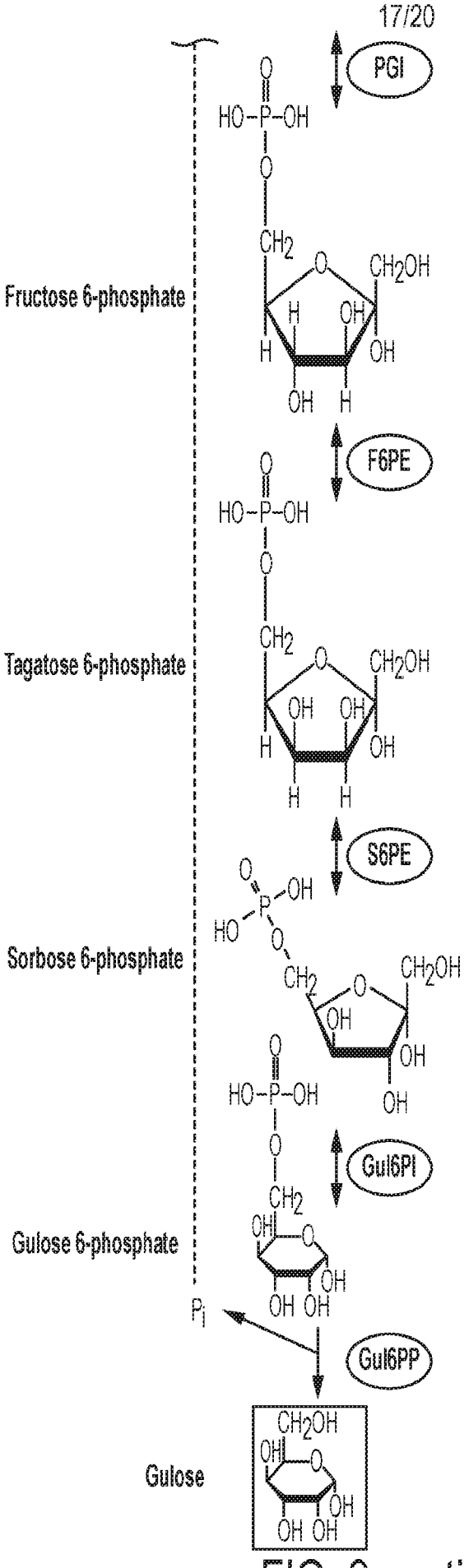


FIG. 9 continued

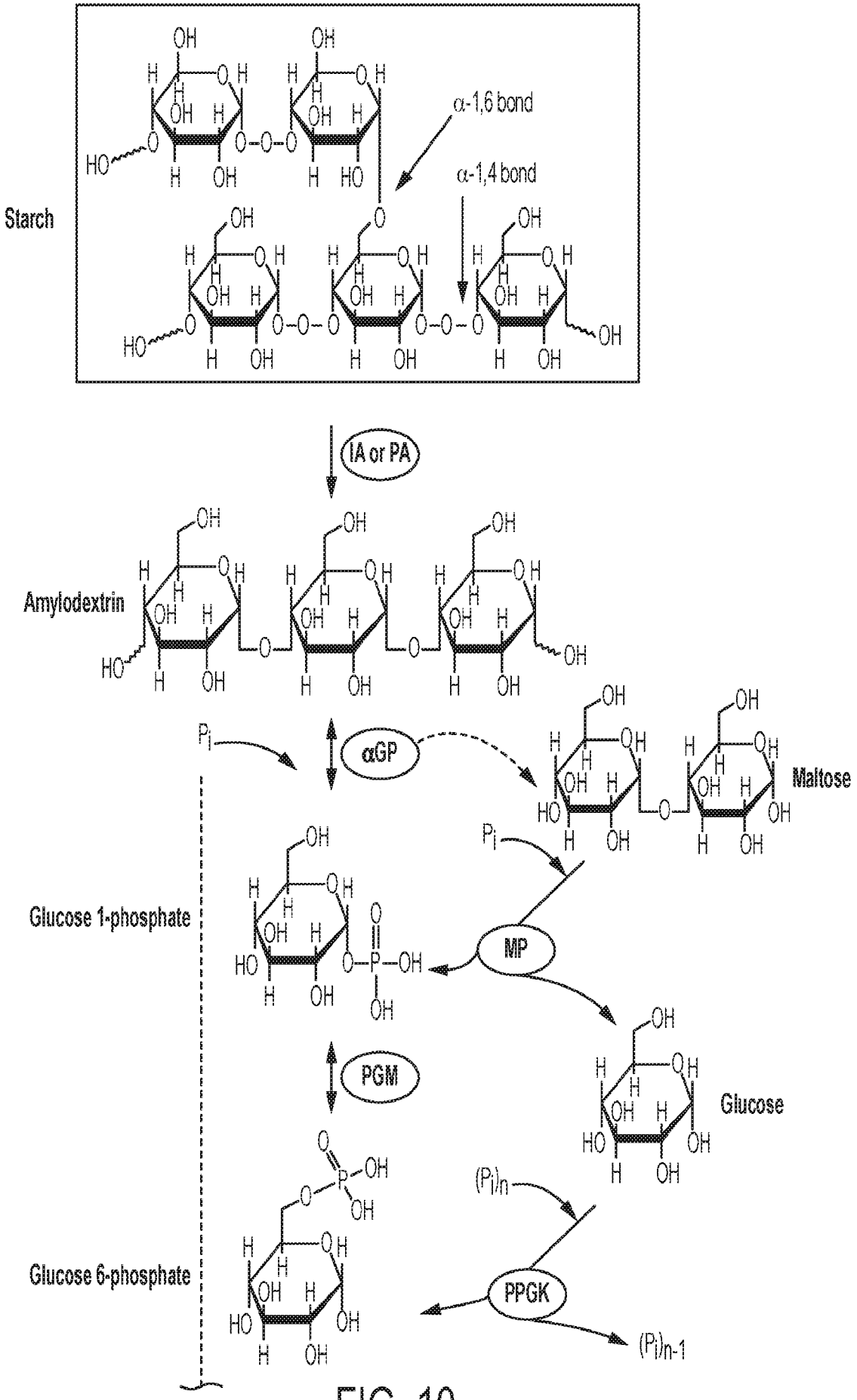

Starch
α-1,6 bond
α-1,4 bond
IA or PA
Amylodextrin
Pi
αGP
Maltose
Glucose 1-phosphate
MP
PGM
Glucose
Glucose 6-phosphate
(Pi)n
PPGK
(Pi)n-1

FIG. 10

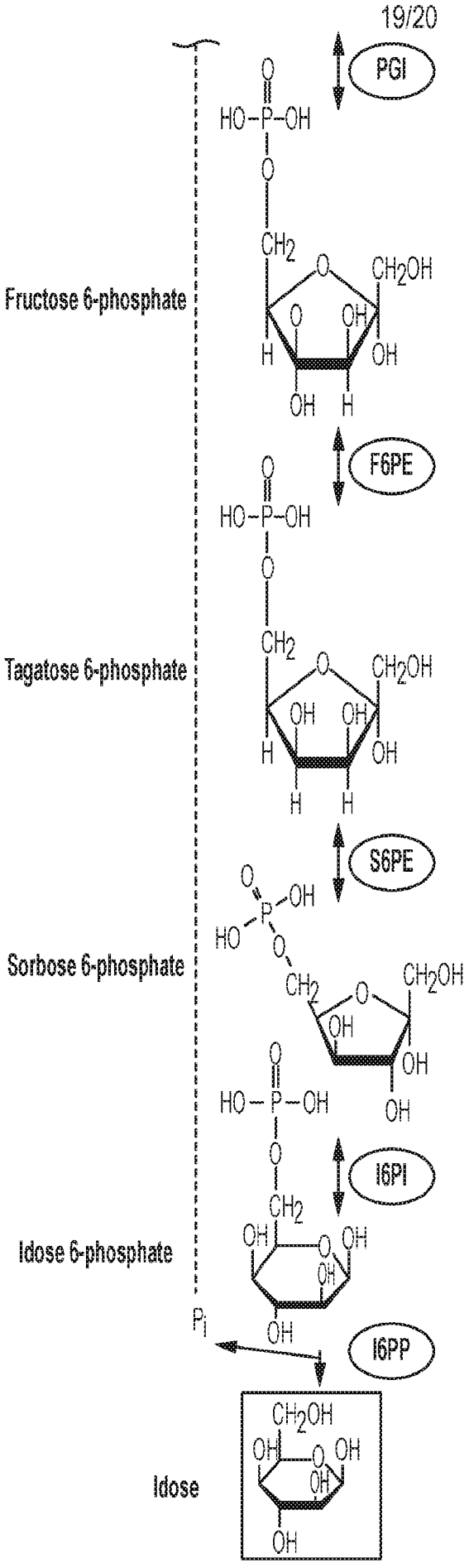


FIG. 10 continued

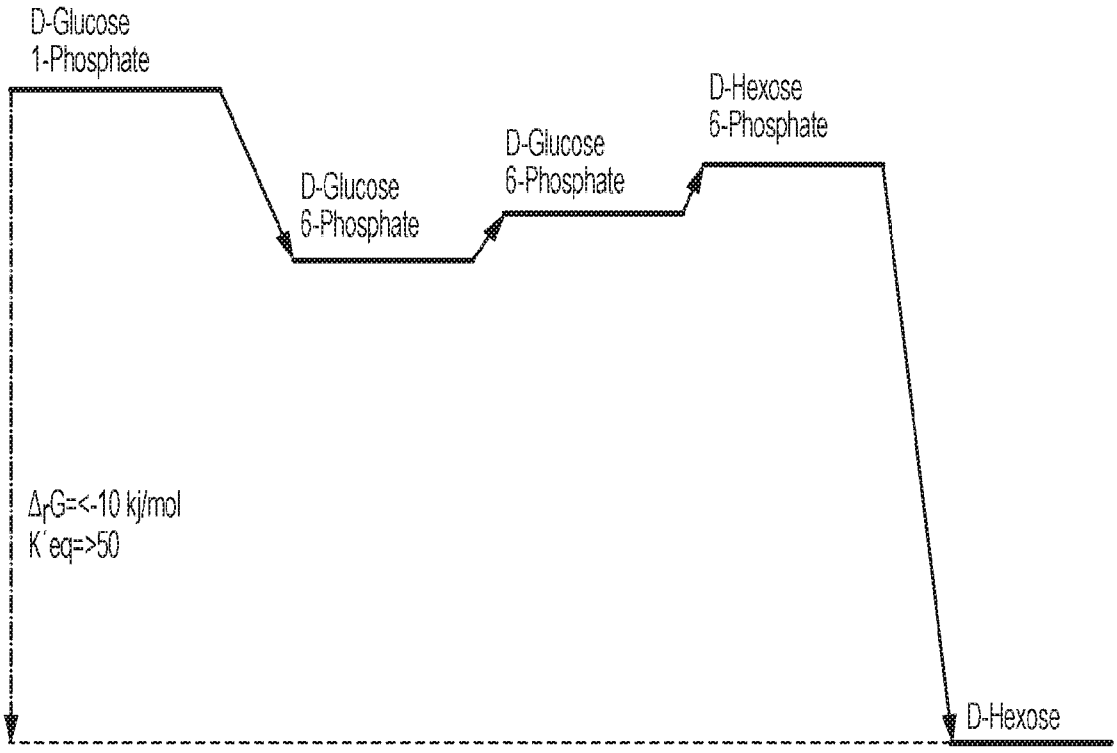

D-Glucose
1-Phosphate
D-Glucose
6-Phosphate
D-Glucose
6-Phosphate
D-Hexose
6-Phosphate
ΔrG=<-10 kj/mol
K'eq=>50
D-Hexose

FIG. 11