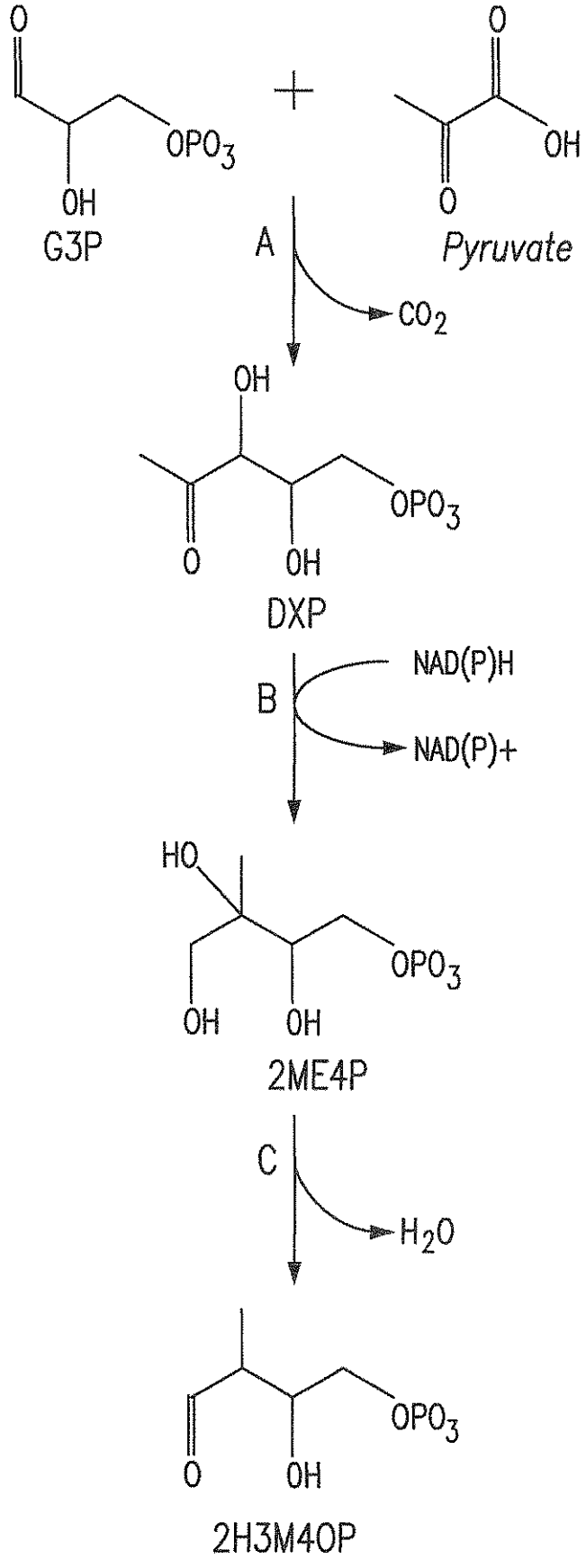

O
OPO3
OH
G3P
+
O
OH
O
Pyruvate
A
CO2
OH
OPO3
O
OH
DXP
B
NAD(P)H
NAD(P)+
HO
OPO3
OH
OH
2ME4P
C
H2O
OPO3
O
OH
2H3M4OP

FIG. 1

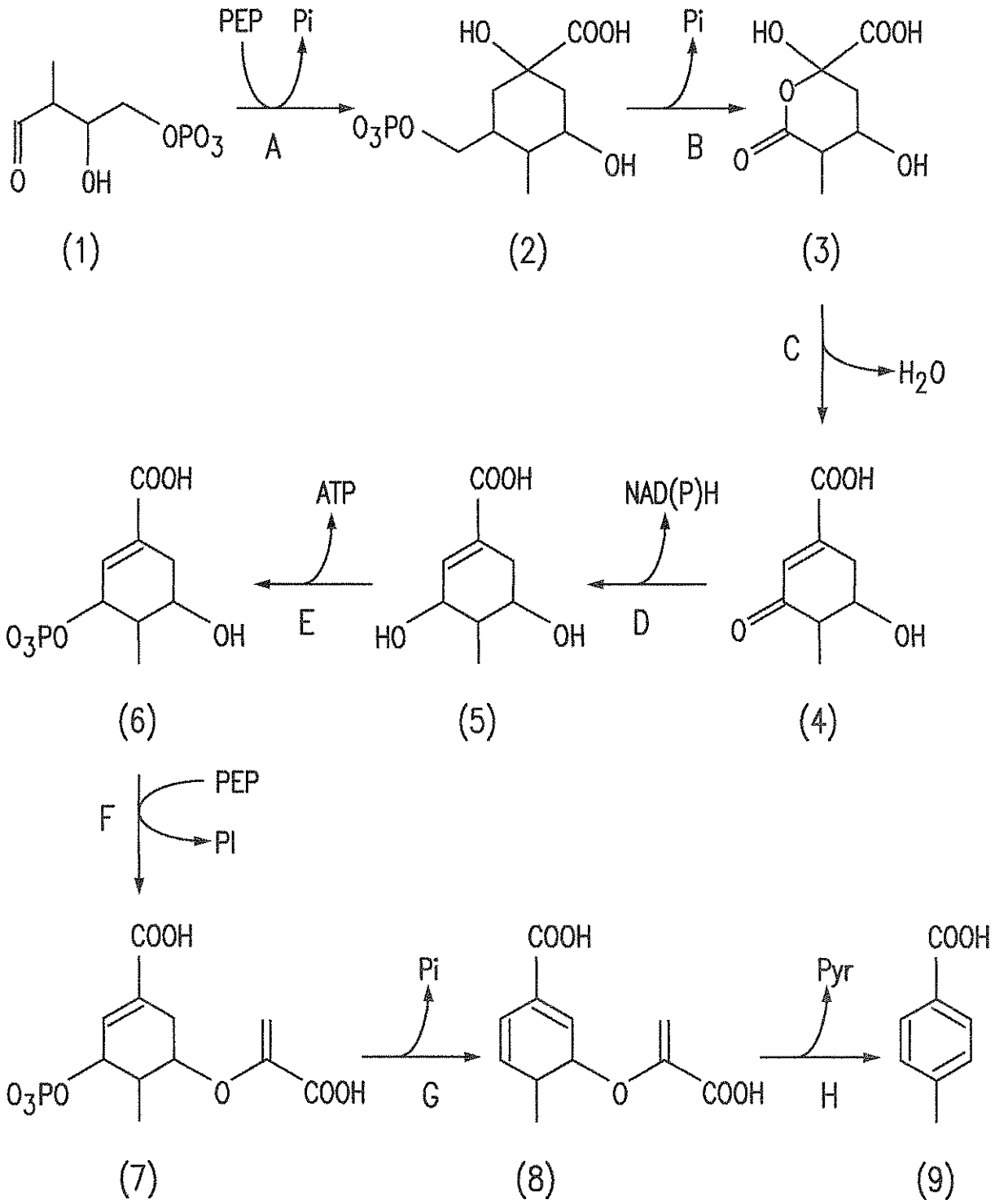

PEP
Pi
A
HO
COOH
O_3PO
OH
Pi
B
HO
COOH
O
O
OH
(1)
(2)
(3)
C
H_2O
COOH
ATP
E
COOH
HO
OH
NAD(P)H
D
COOH
O
OH
O_3PO
OH
(6)
(5)
(4)
F
PEP
PI
COOH
O_3PO
O
COOH
Pi
G
COOH
O
COOH
Pyr
H
COOH
(7)
(8)
(9)

FIG. 2

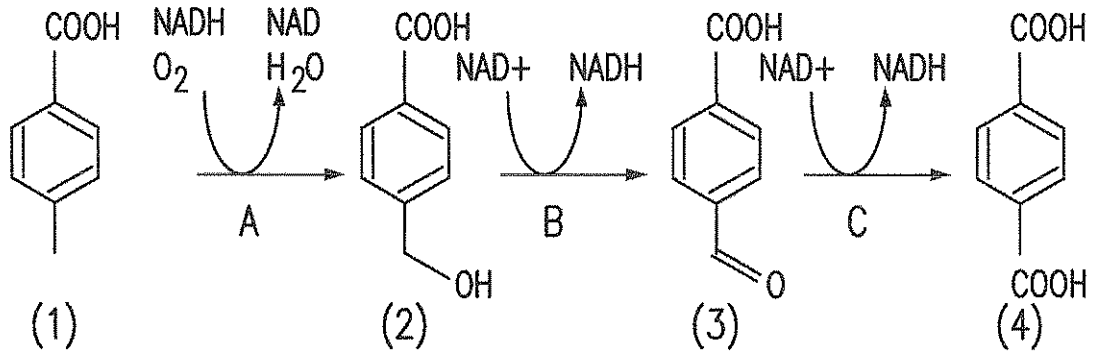

COOH
NADH
O2
NAD
H2O
A
COOH
OH
NAD+
NADH
B
COOH
O
NAD+
NADH
C
COOH
COOH
(1)
(2)
(3)
(4)

FIG. 3