

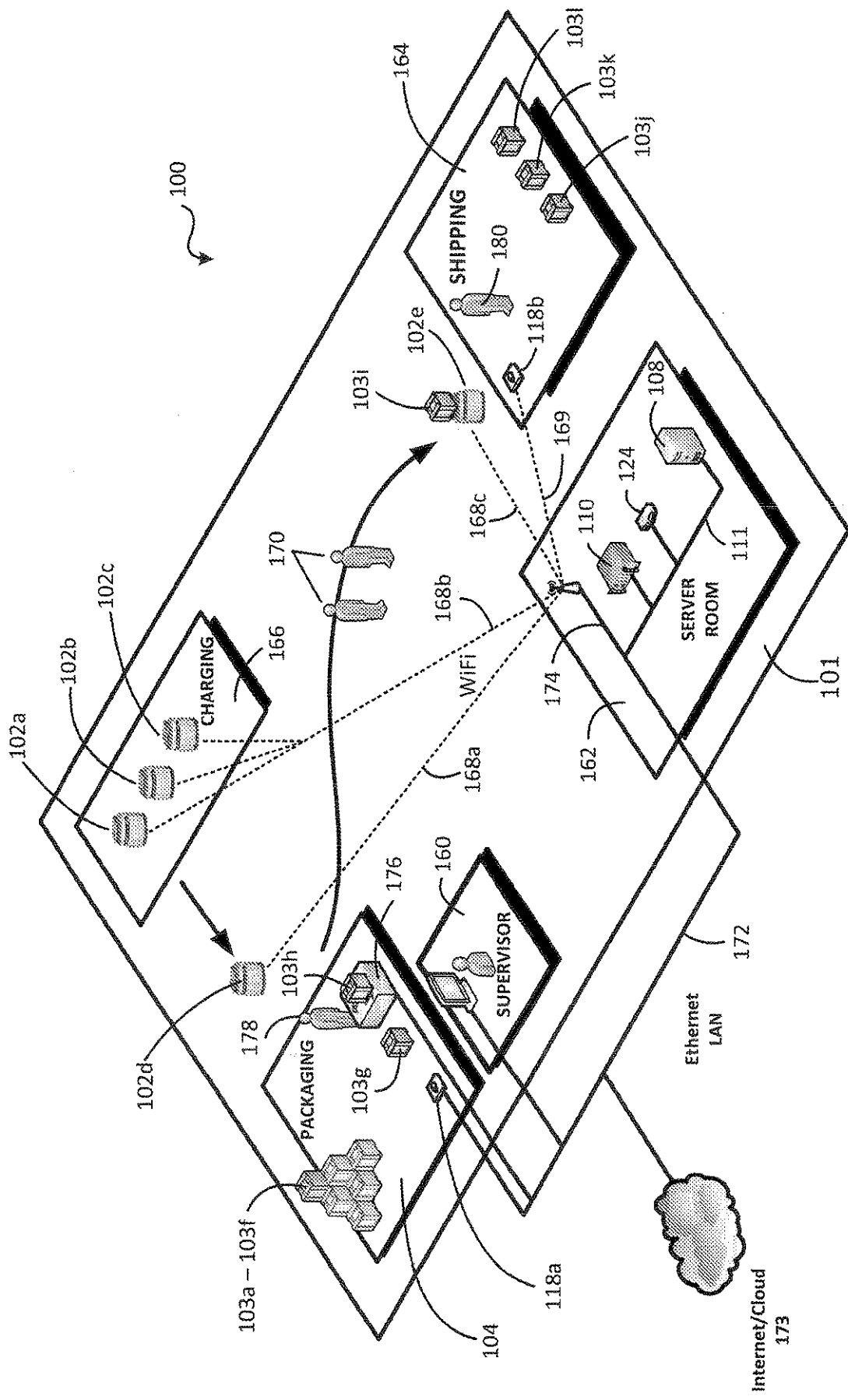
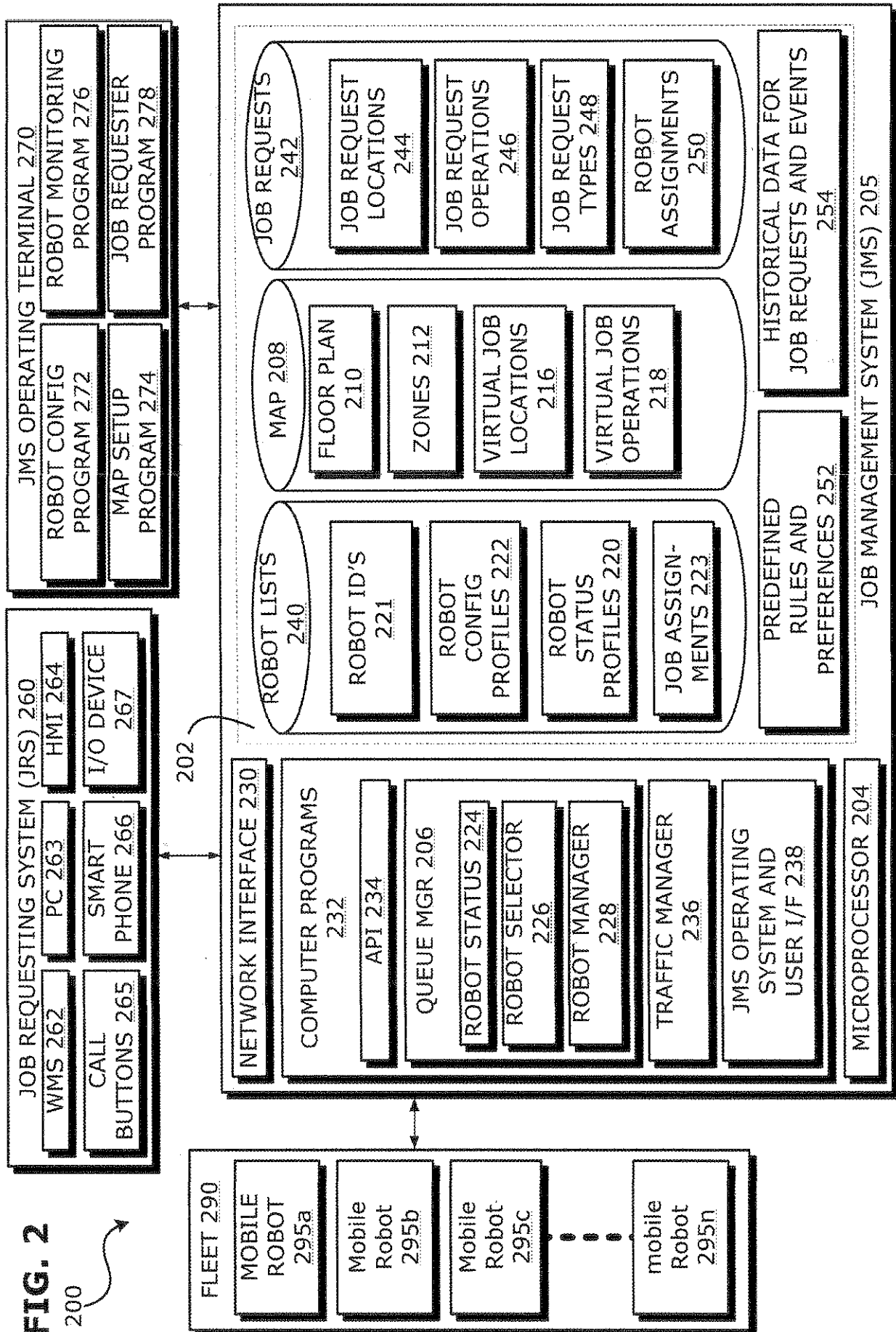


FIG. 1

FIG. 2

200



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2D-Map
MapInfo: DockType "Name=Dock" "Label=Dock" "NameRequired=1" "Color=0x0ffff0" "Heading=Required"
MapInfo: GoalType "Name=Goal" "Label=Goal" "NameRequired=1" "Color=0x000000" "Color2=0x000000"
MapInfo: SectorType "Name=ResistedSector" "Label=ResistedSector" "Desc=Area that the robot will try to avoid, but will drive through if necessary." "NameRequired=1" "Color=0xf2ea72" "Color1=0x000000" "NameRequired=1"
MapInfo: SectorType "Name=TwoWayDriveOnRightSector" "Label=PreferredDirectionRight" "Desc=Two Way Drive on Right" "NameRequired=1" "Color=0xad33b4" "Color1=0x91b899" "Shape=GradTwoWayDriveOnRight" "NameRequired=1"
Caim: ResistedSector 0 0 0.000000 " " ICON "ResistedSector17" -22940 -14446 -14715 -12764
Caim: ResistedSector 0 0 0.000000 " " ICON "ResistedSector14" -22794 -12582 -7732 -10285
Caim: GoalWithHeading -20215 -8485 -87.900000 " " ICON "Mechanical"
Caim: ResistedSector 0 0 0.000000 " " ICON "ResistedSector18" -18240 -10369 -14050 -9911
Caim: Goal -13843 -3056 0.000000 " " ICON "Software"
Caim: ResistedSector 0 0 0.000000 " " ICON "ResistedSector15" -12453 -10401 -9276 -9816
Caim: ResistedSector 0 0 90.000000 " " ICON "ResistedSector13" -7824 15631 -6354 16822
Caim: Goal -7126 -16086 0.000000 " " ICON "Empty Conference"
Caim: Goal -5823 -7570 0.000000 " " ICON "RD Lab West Mid"
Caim: GoalWithHeading -5693 -1653 135.145272 " " ICON "RD Lab West North"
Caim: GoalWithHeading -3908 -28384 -179.800000 " " ICON "Offices"
Caim: ResistedSector 0 0 0.000000 " " ICON "ResistedSector12" -1804 -10937 1082 -7773
Caim: TwoWayDriveOnRightSector 0 0 0.000000 " " ID=13345 "PreferredDirectionRight1" 2771 -18108 14449 -13021
Caim: ResistedSector 0 0 0.000000 " " ICON "ResistedSector16" 3896 -27097 6854 -25557
Caim: GoalWithHeading 4195 -28833 -80.258274 " " ICON "Hall Entry"
Caim: GoalWithHeading 5868 -10253 -90.000000 " " ICON "RD Mid"
Caim: GoalWithHeading 17212 -1515 -90.000000 " " ID=3145776 "RD Northeast"
Caim: Goal 18401 -17381 0.000000 " " ICON "Closet"
Caim: GoalWithHeading 19228 -25601 -154.771535 " " ICON "Training"
Caim: Goal 21597 -7451 0.000000 " " ICON "RD comm support"
LINES
-24162 -6218 -21563 -6227
-24148 -2057 -24162 -8218
-24141 160 -24148 -2057
-24096 -10015 -24097 -13709
-24096 -1842 -24096 -1843

```

M
G
H
L

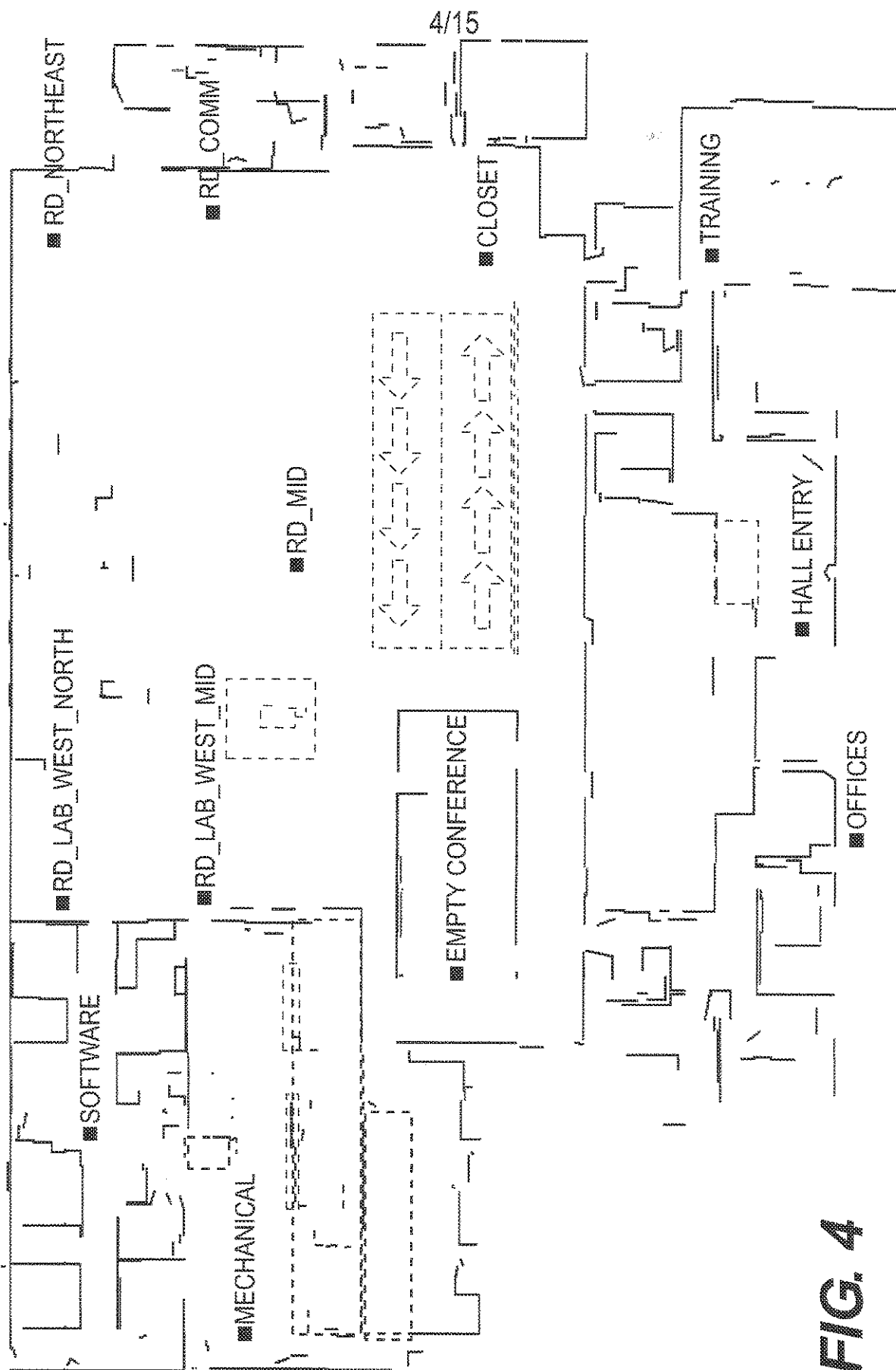
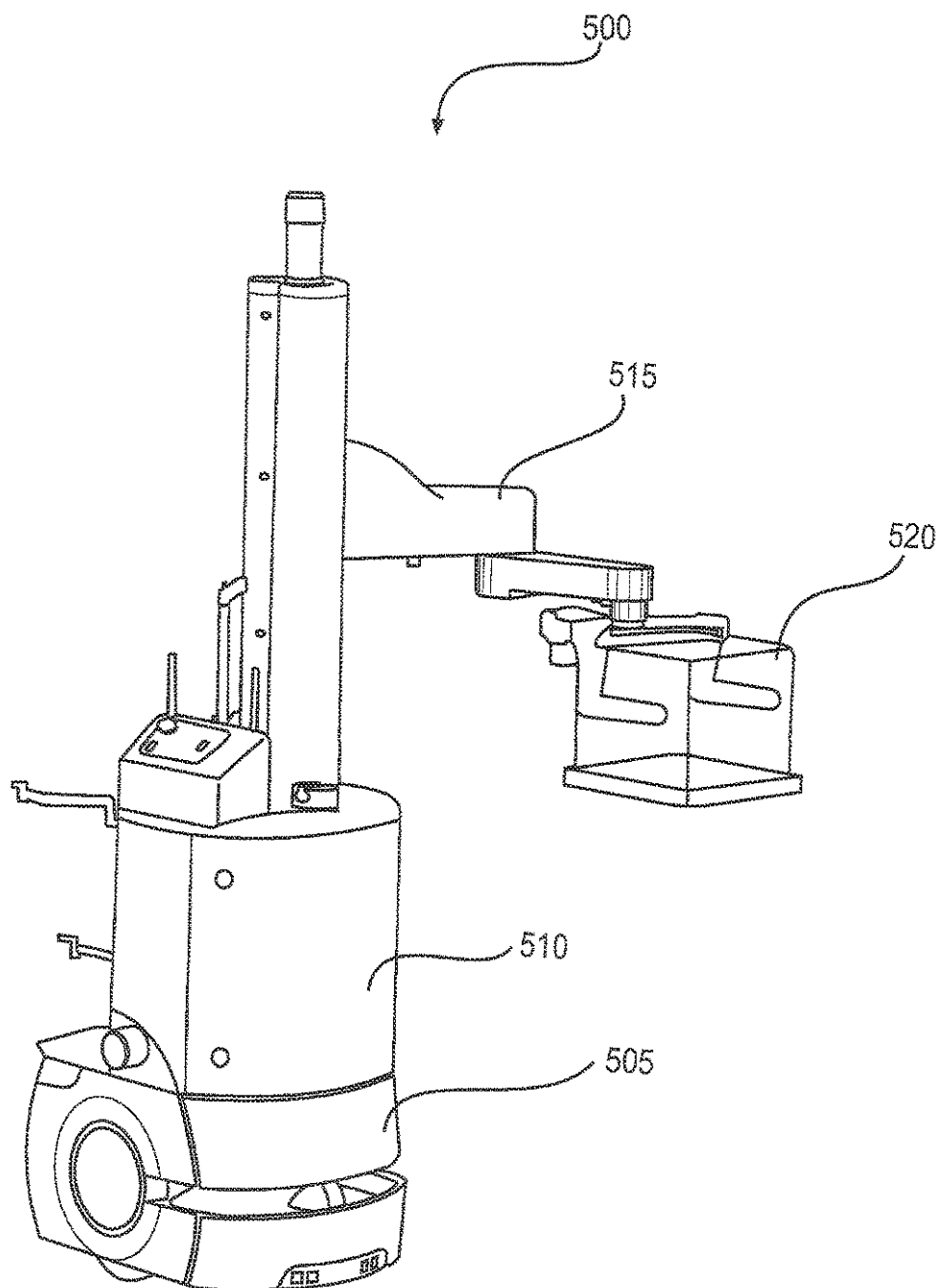
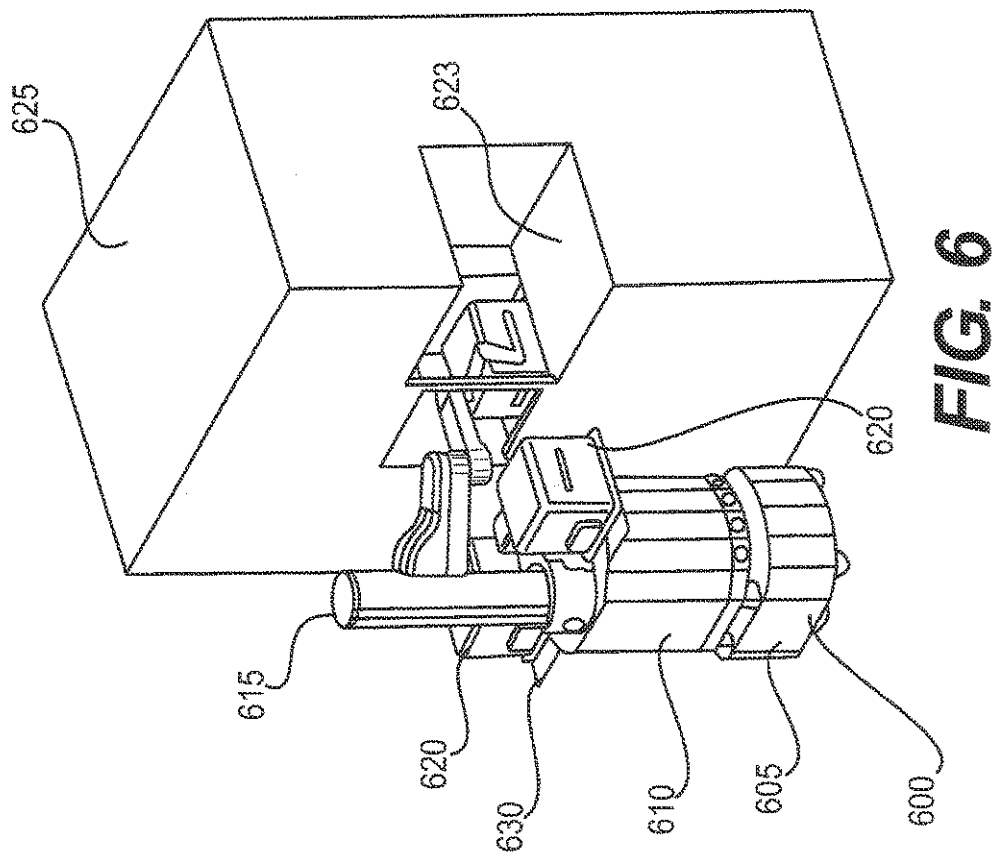


FIG. 4

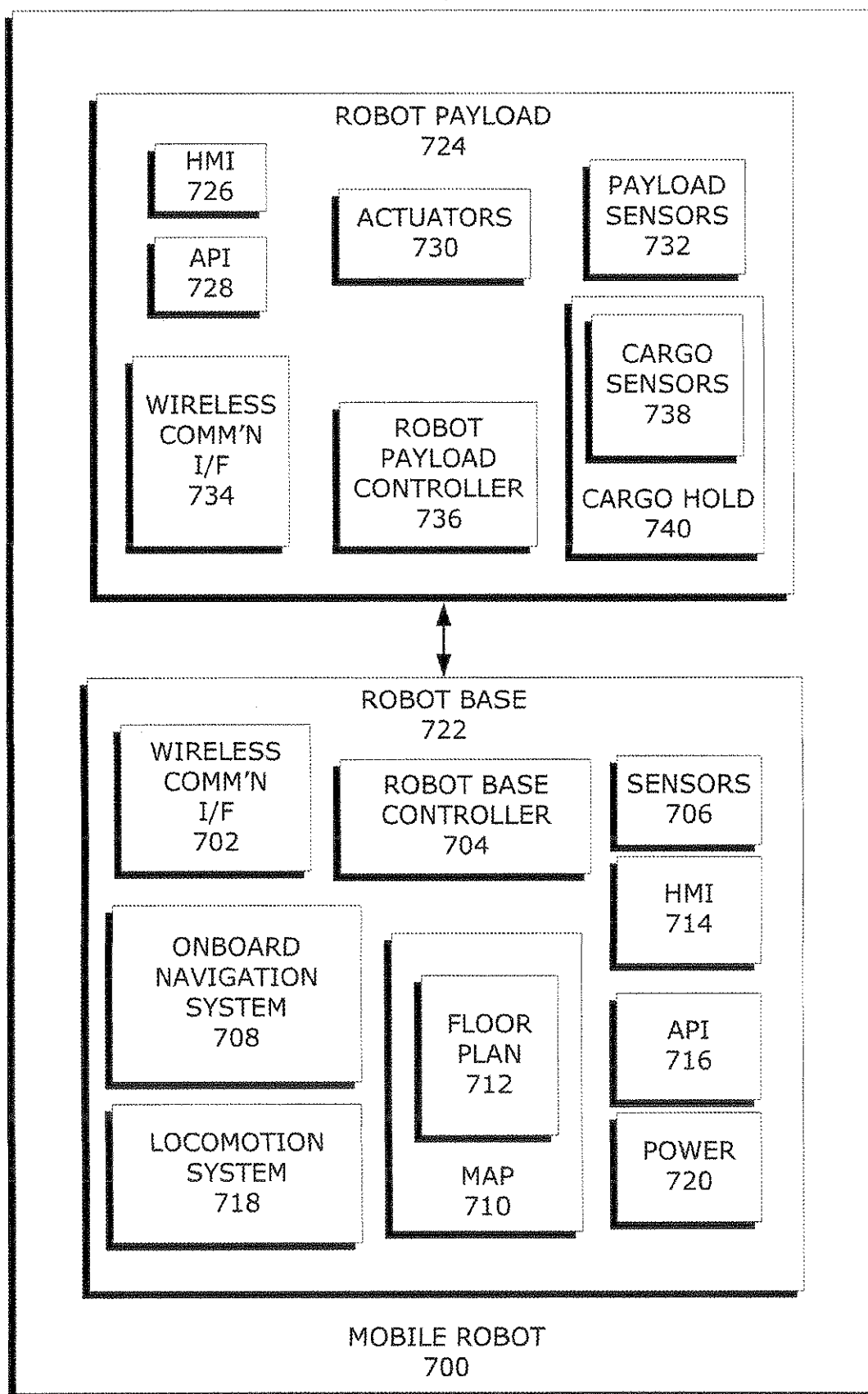
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**FIG. 5**

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**FIG. 7**

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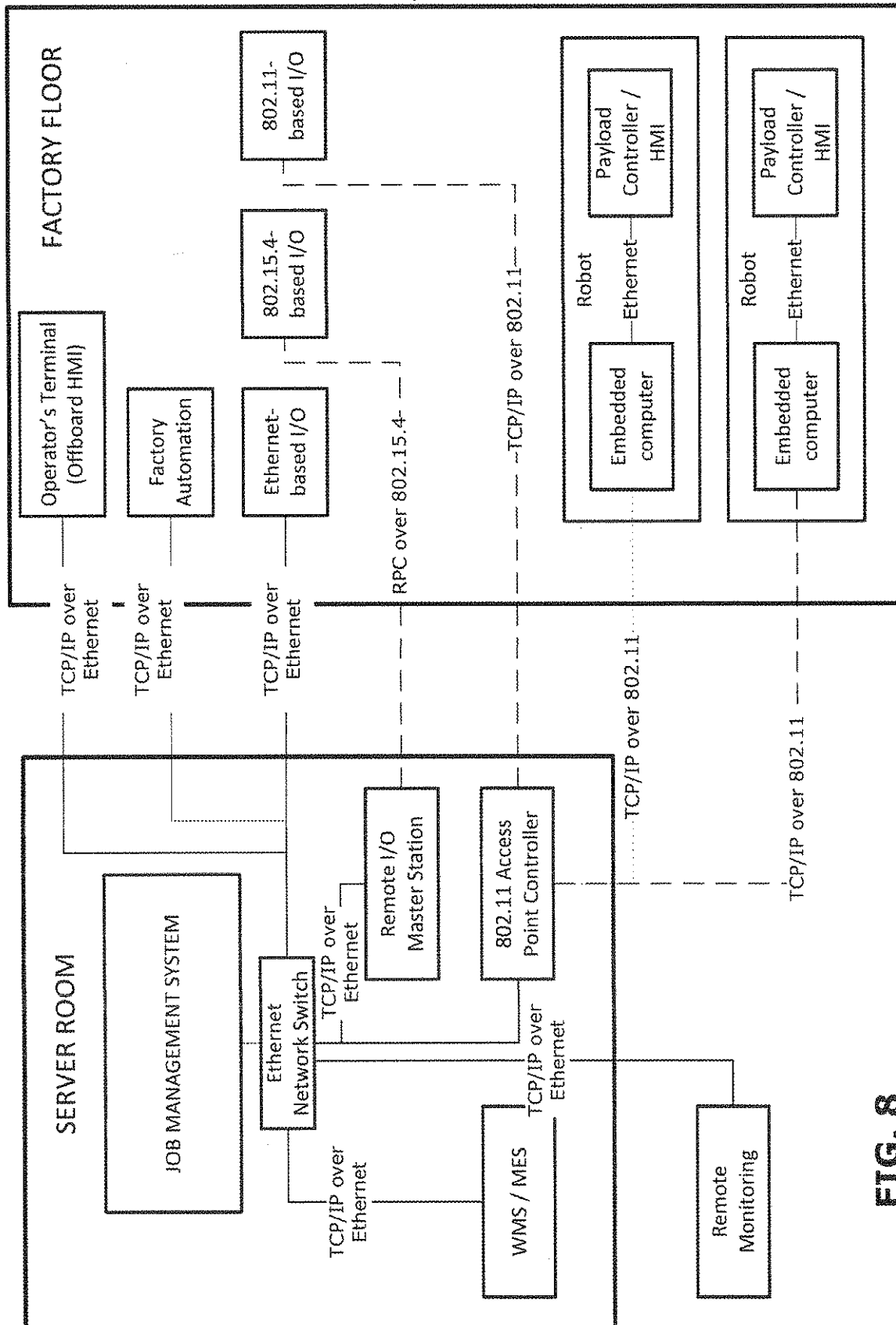


FIG. 8

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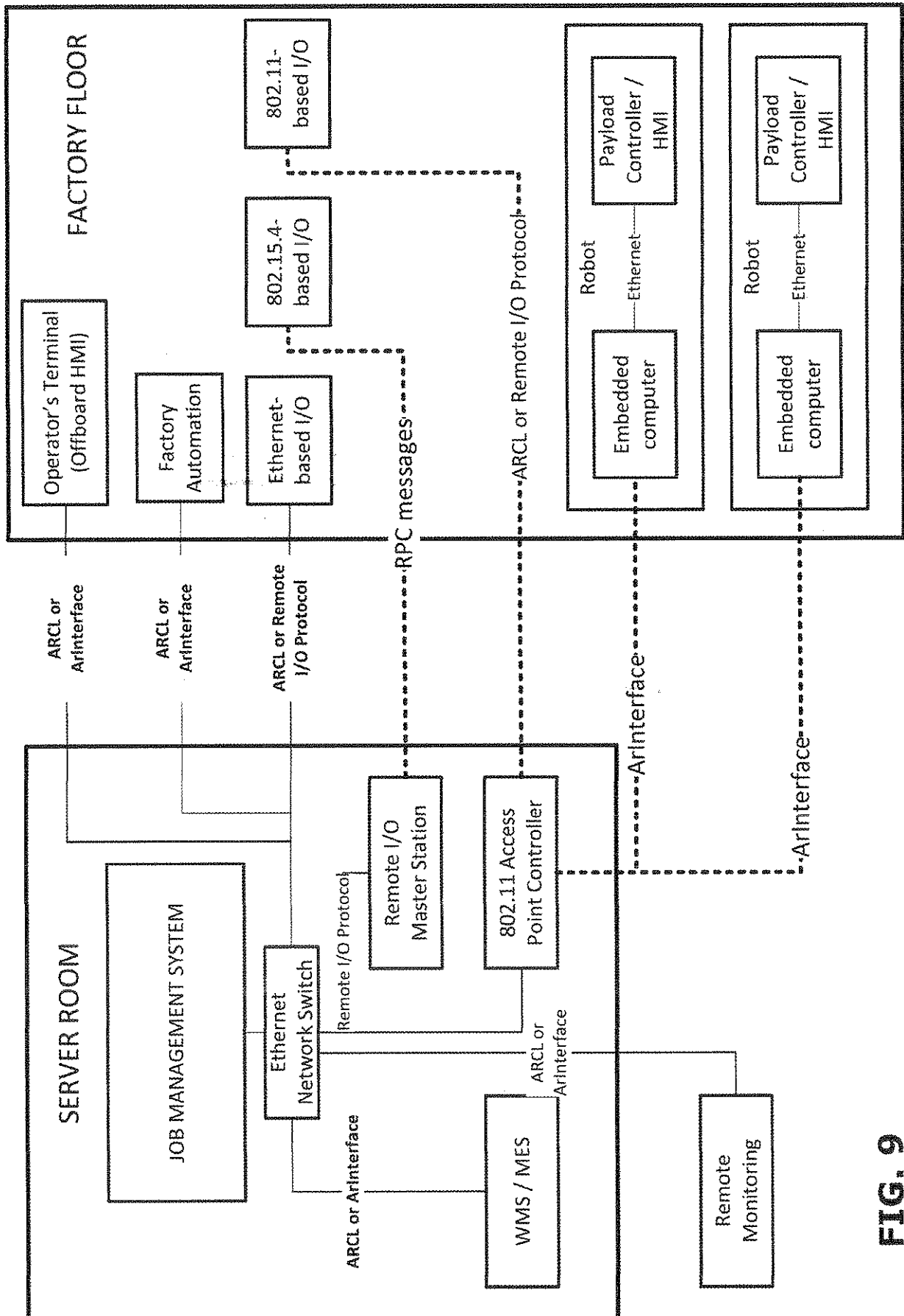
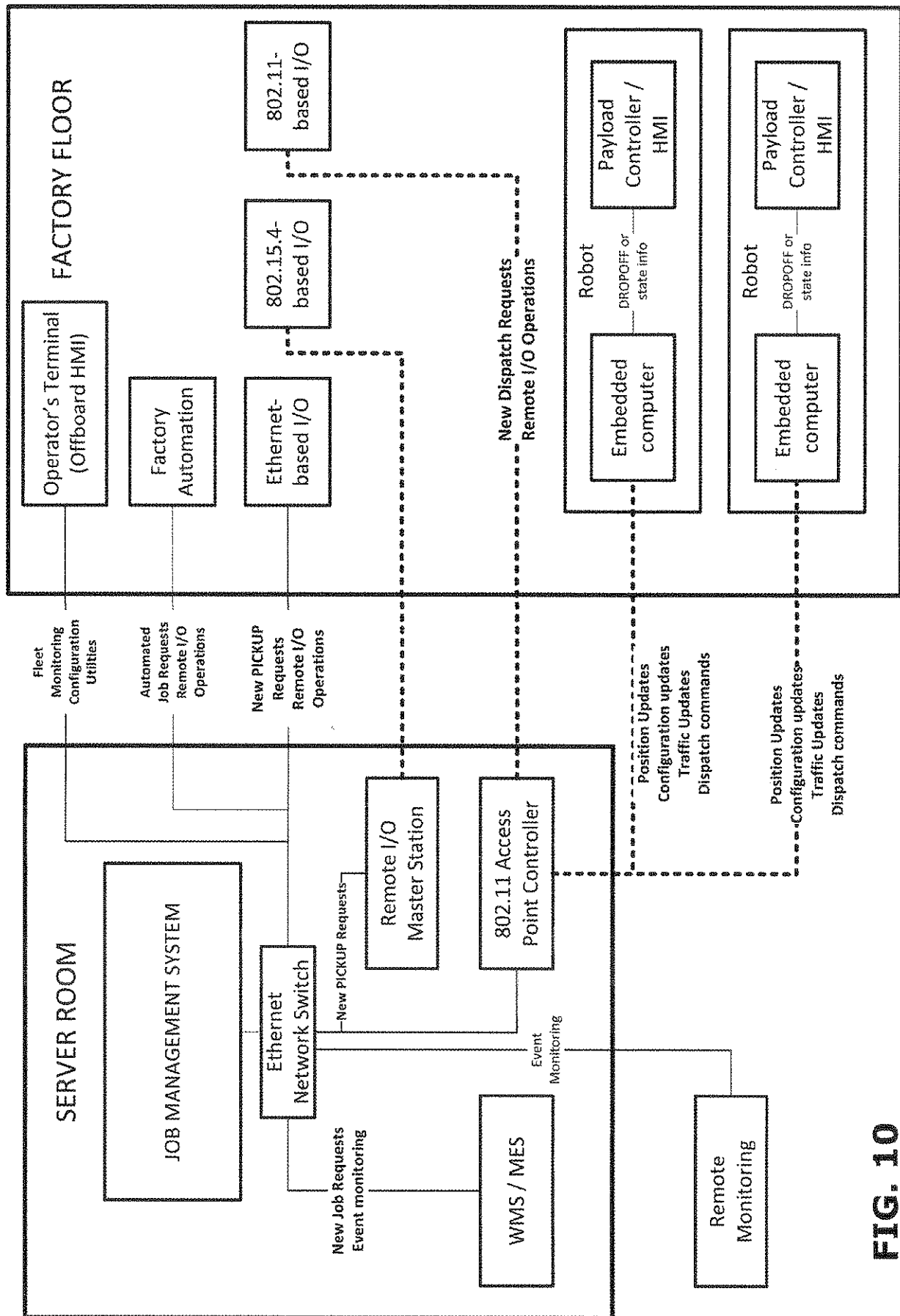
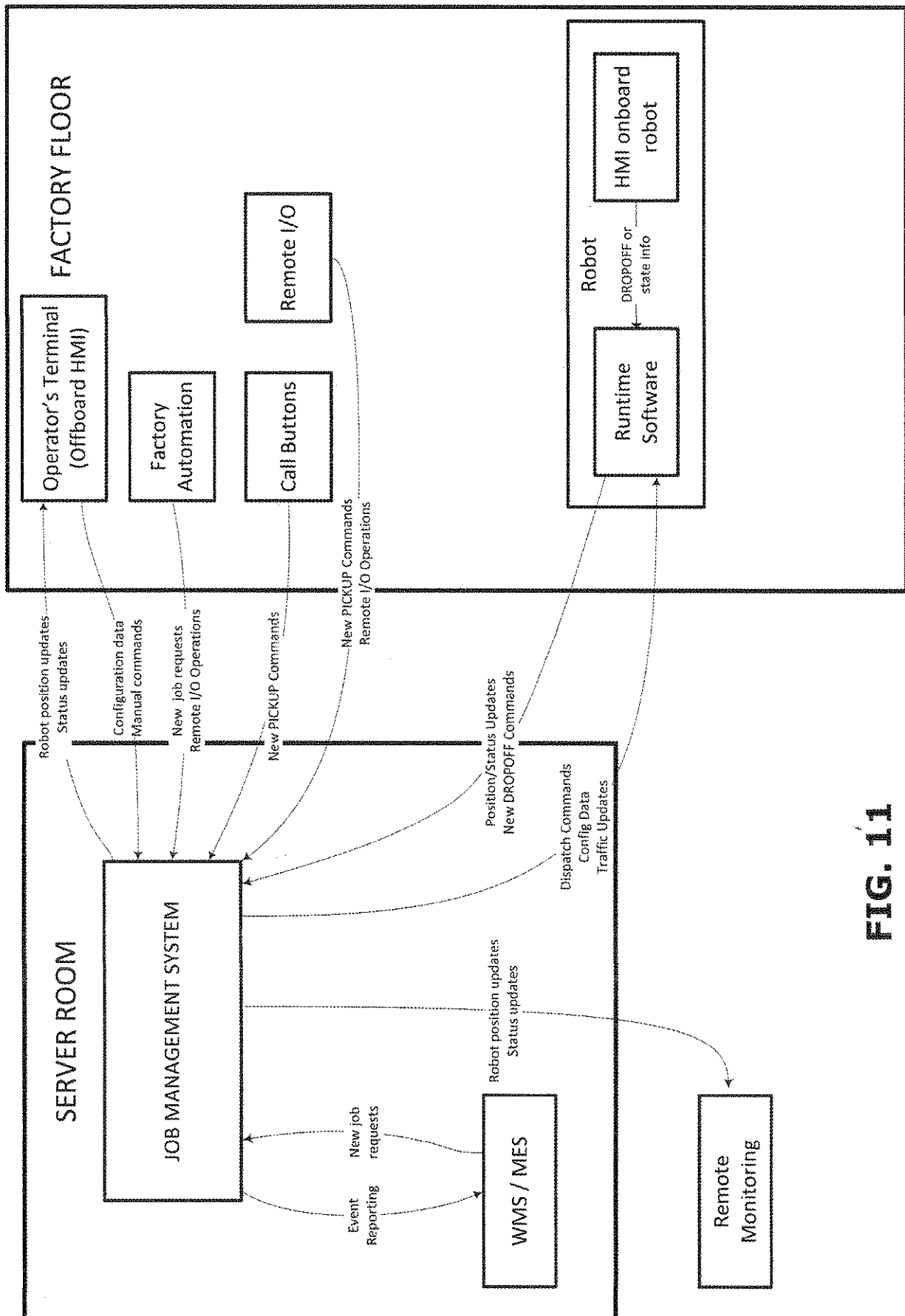


FIG. 9

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**FIG. 10**

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**FIG. 11**

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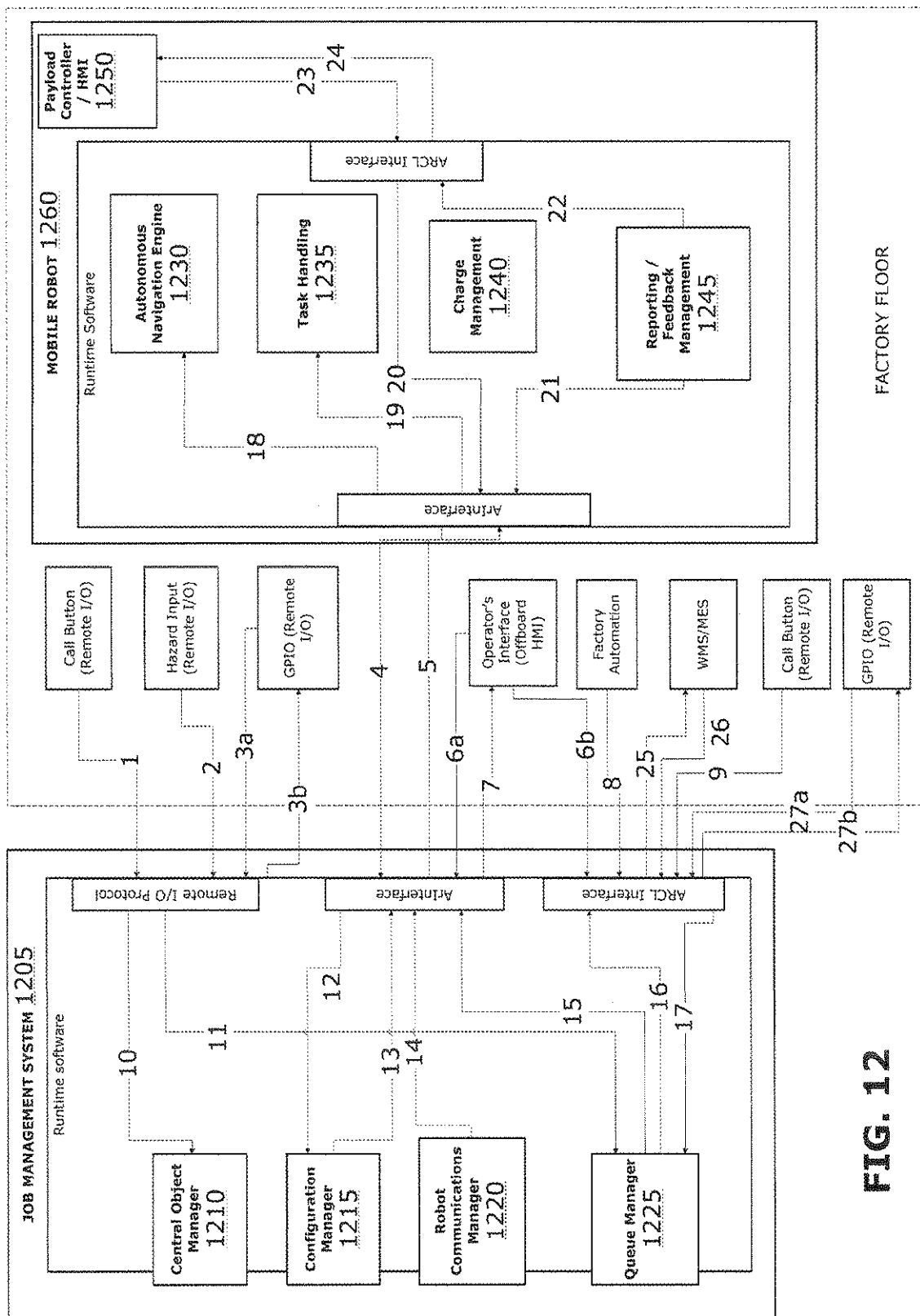


FIG. 12

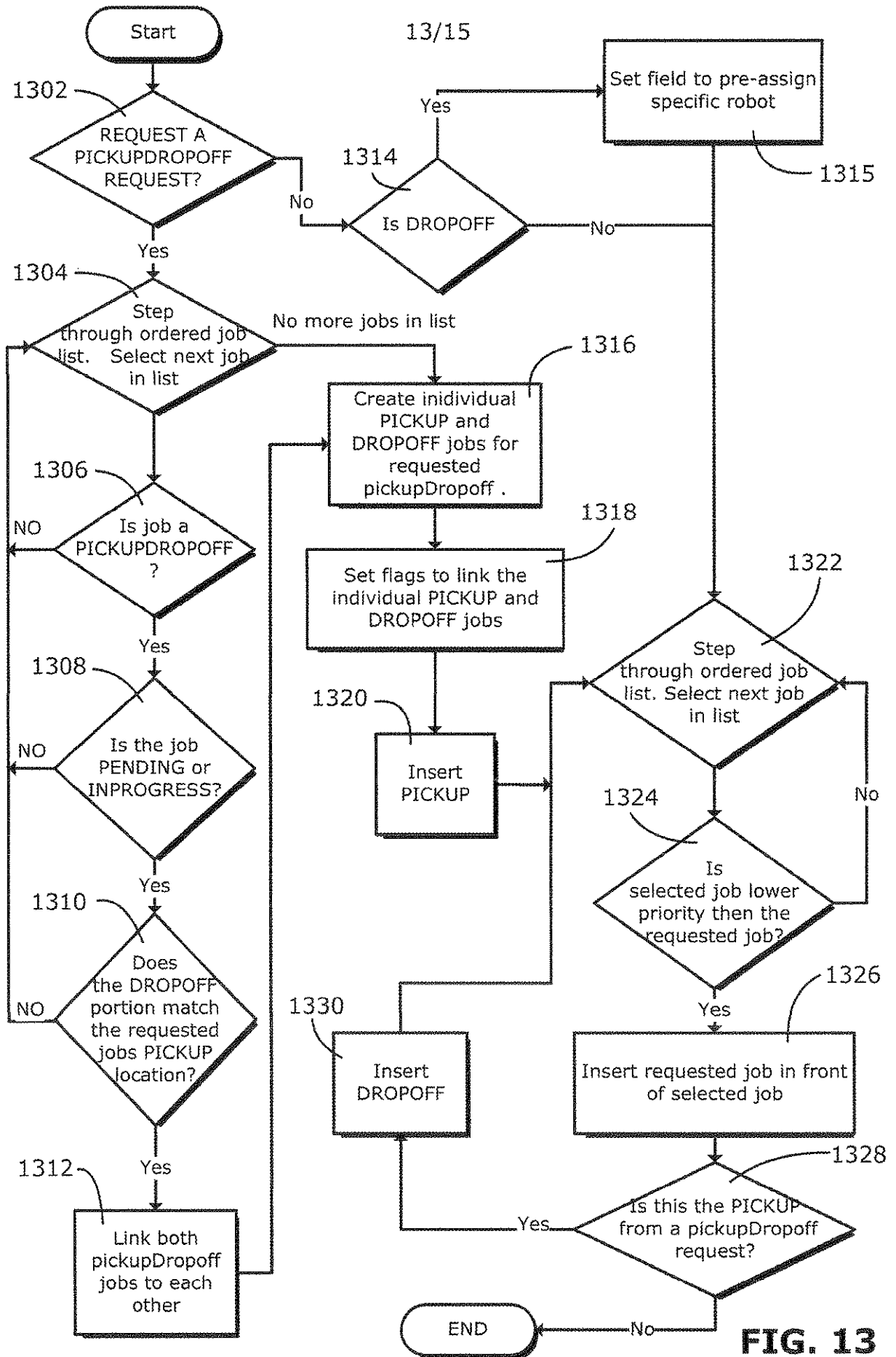


FIG. 13

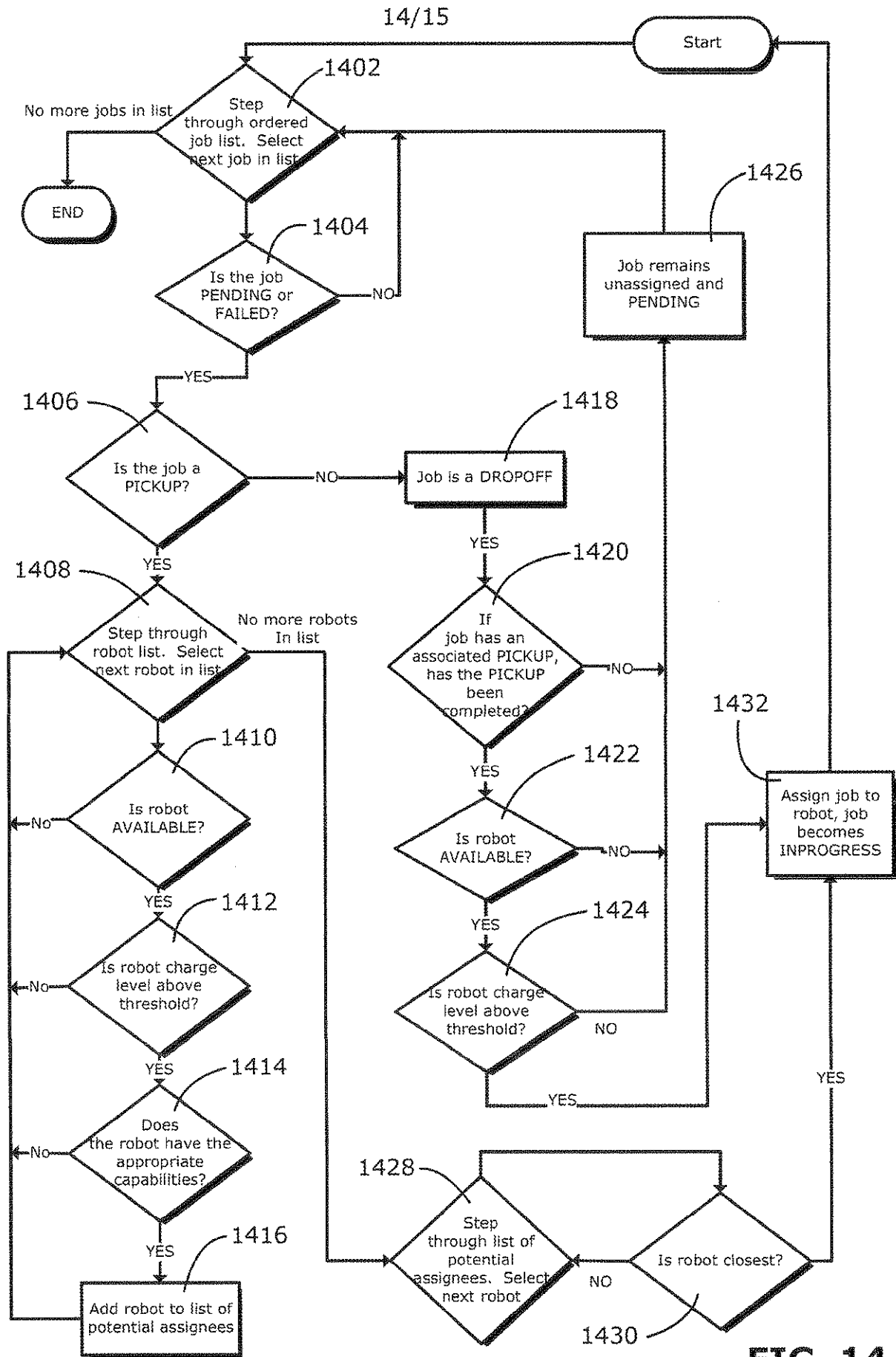


FIG. 14

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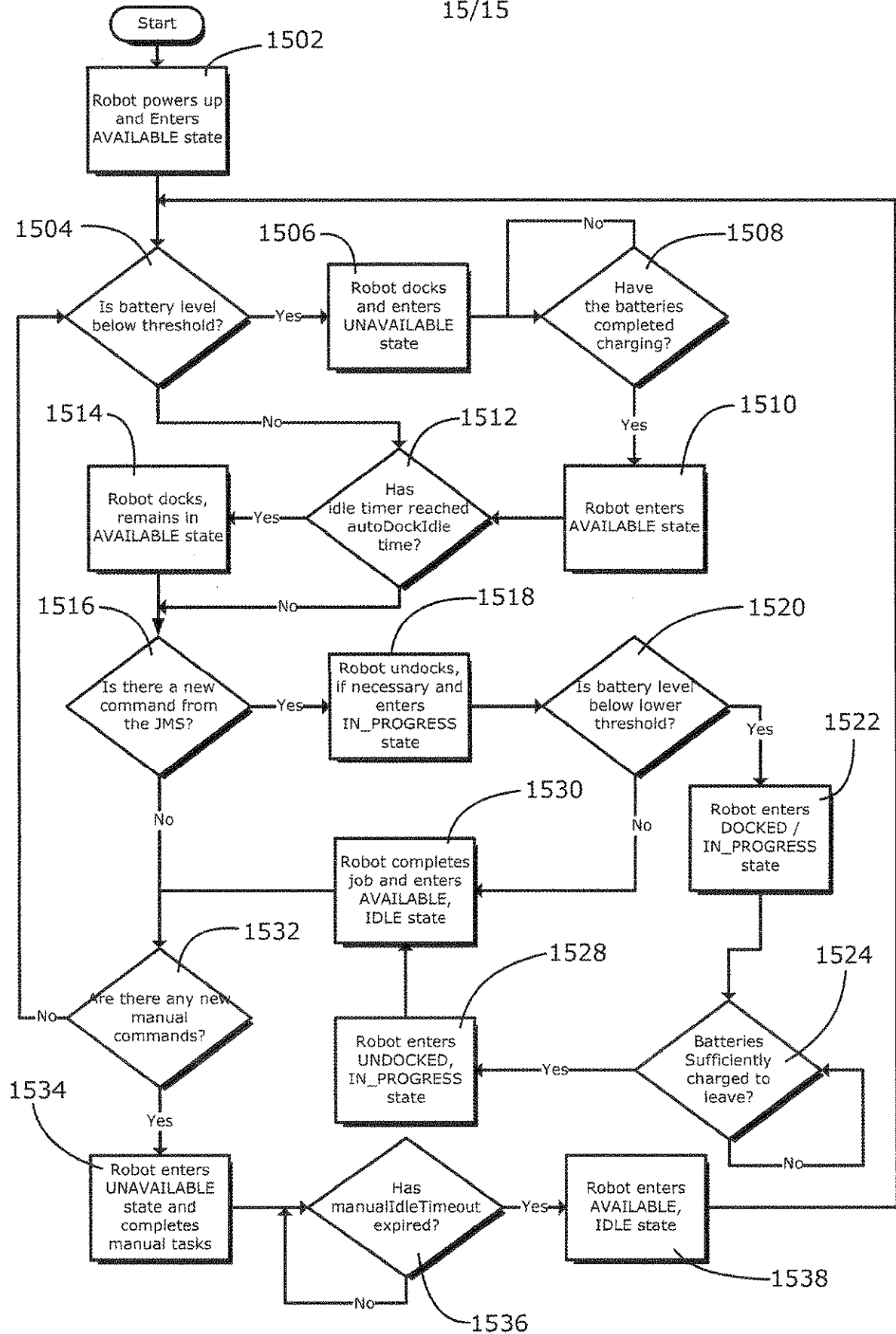


FIG. 15