FIG. 1

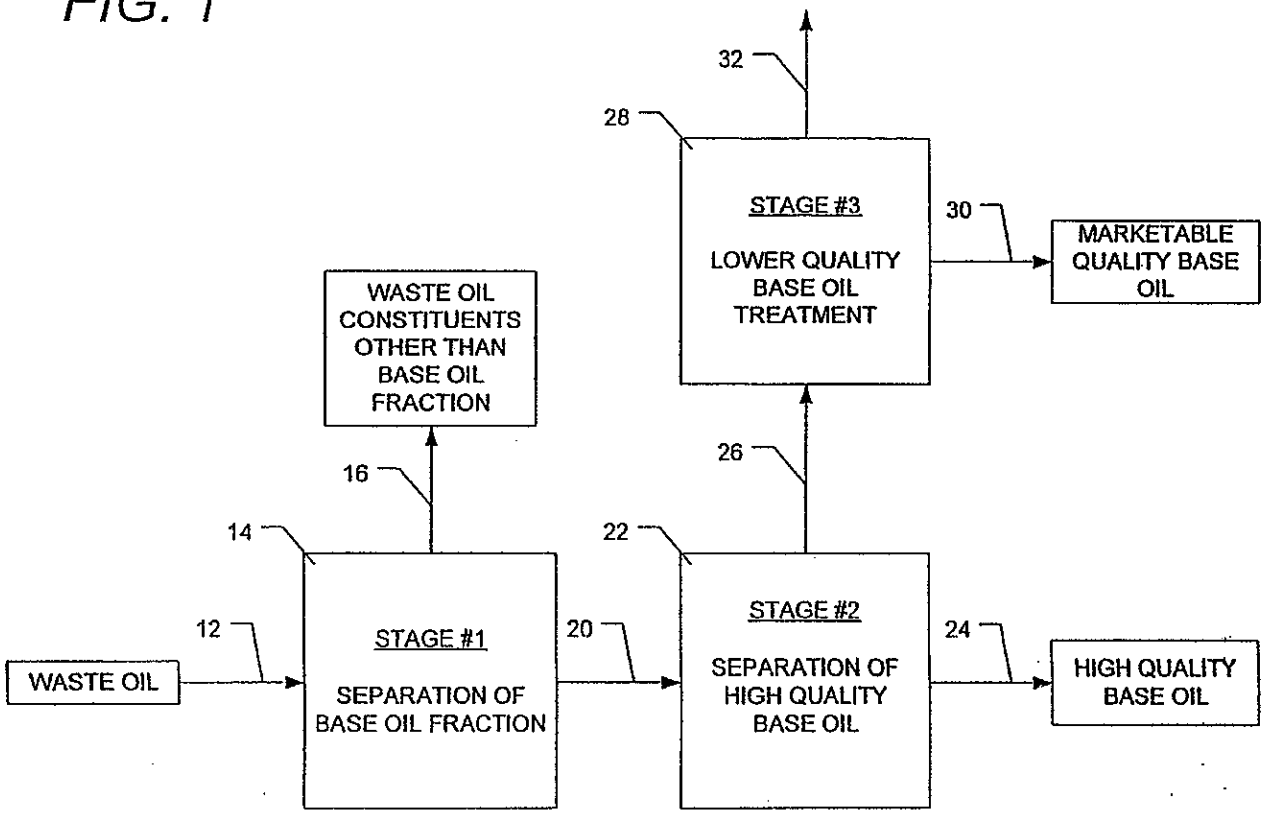

32
28
STAGE #3
LOWER QUALITY BASE OIL TREATMENT
30
MARKETABLE QUALITY BASE OIL
WASTE OIL CONSTITUENTS OTHER THAN BASE OIL FRACTION
16
26
14
22
12
STAGE #1
SEPARATION OF BASE OIL FRACTION
20
STAGE #2
SEPARATION OF HIGH QUALITY BASE OIL
24
WASTE OIL
HIGH QUALITY BASE OIL

FIG. 2

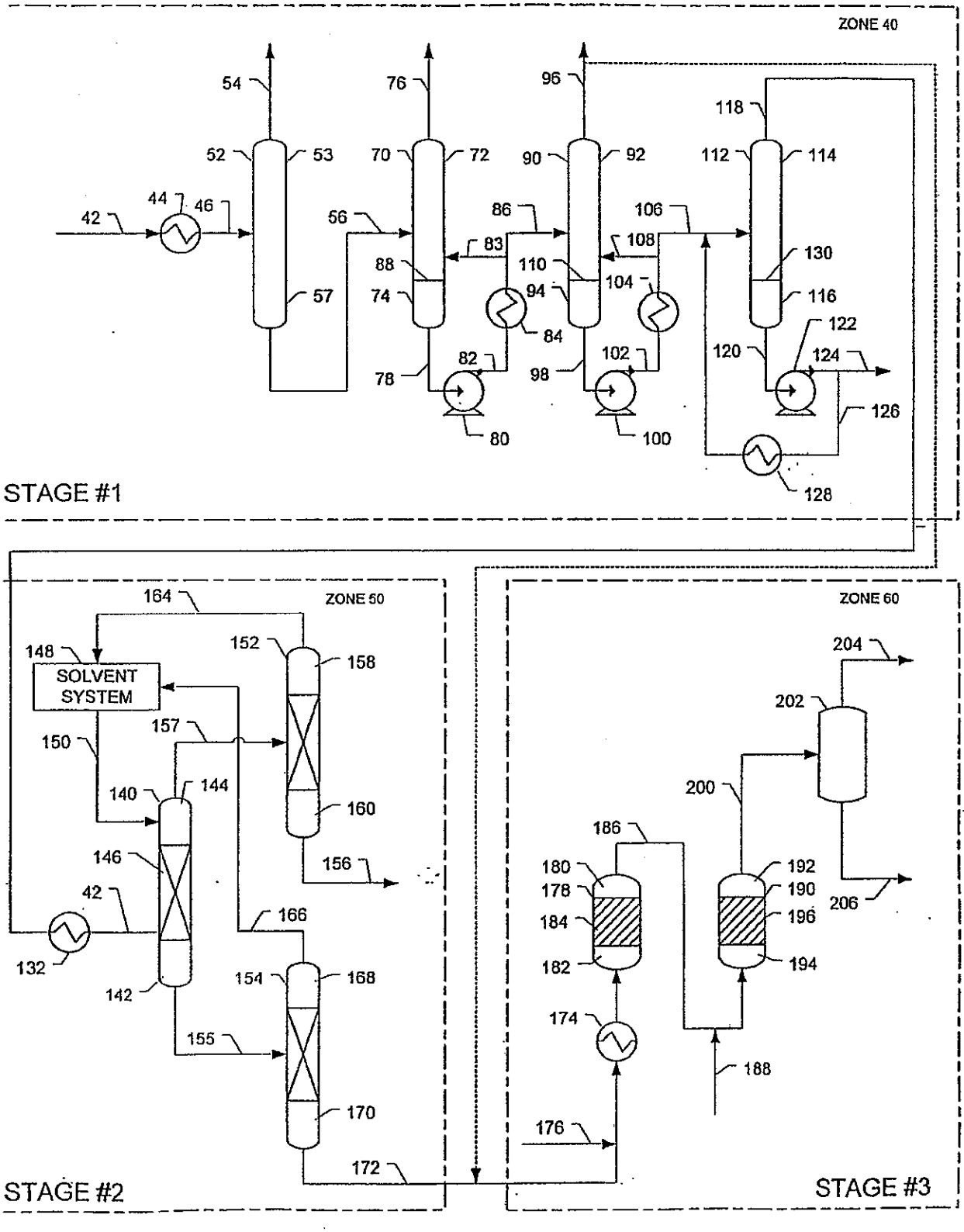

ZONE 40
54
76
96
118
52
53
70
72
90
92
112
114
44
46
42
56
86
106
83
108
88
110
130
74
94
104
116
57
84
122
82
102
120
124
78
98
126
80
100
128
STAGE #1
164
ZONE 50
ZONE 60
148
SOLVENT SYSTEM
152
158
204
202
157
150
140
144
160
200
146
186
156
180
192
42
178
190
166
184
196
206
132
182
194
154
168
142
174
155
188
170
176
172
STAGE #2
STAGE #3

FIG. 3

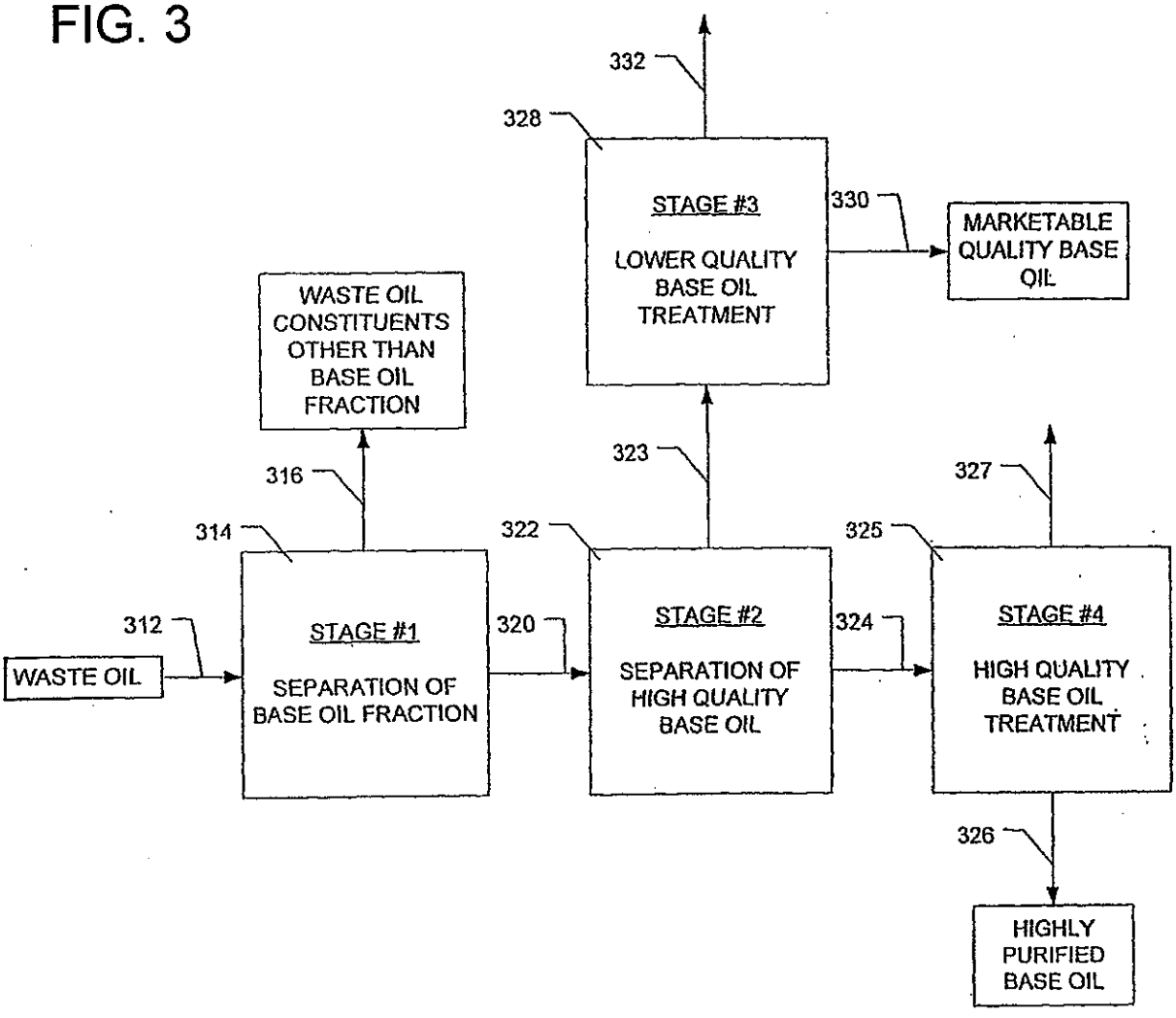

332
328
STAGE #3
LOWER QUALITY BASE OIL TREATMENT
330
MARKETABLE QUALITY BASE OIL
WASTE OIL CONSTITUENTS OTHER THAN BASE OIL FRACTION
316
323
327
314
322
325
312
STAGE #1
SEPARATION OF BASE OIL FRACTION
320
STAGE #2
SEPARATION OF HIGH QUALITY BASE OIL
324
STAGE #4
HIGH QUALITY BASE OIL TREATMENT
WASTE OIL
326
HIGHLY PURIFIED BASE OIL

FIG. 4

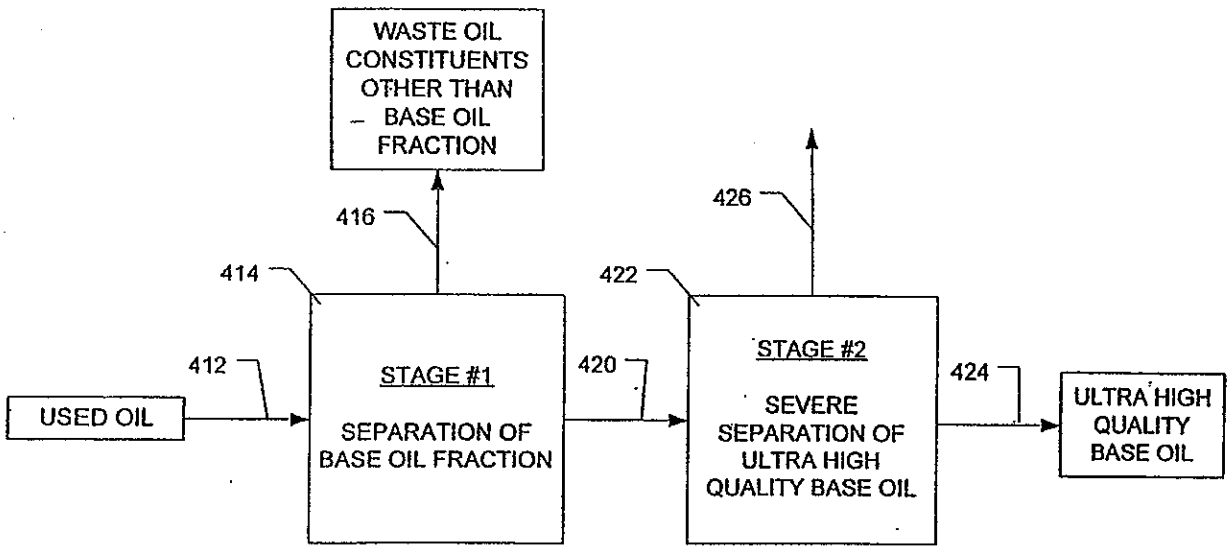
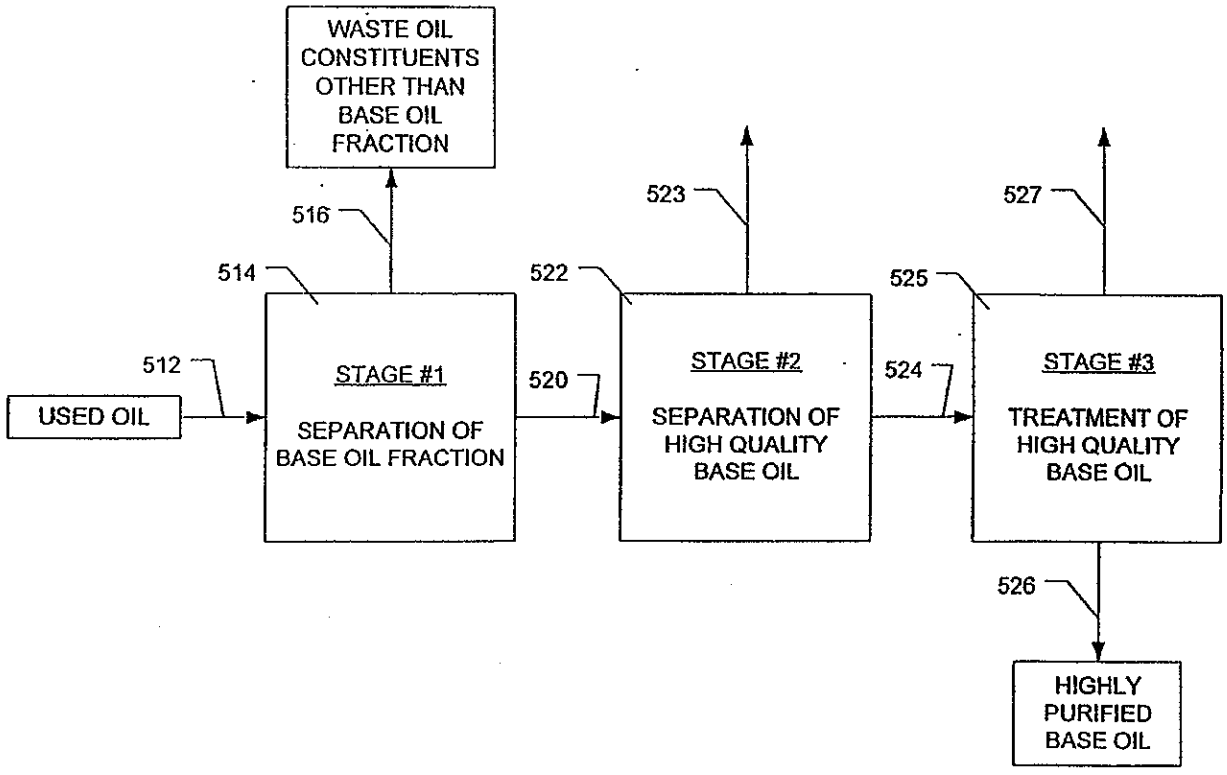

WASTE OIL CONSTITUENTS OTHER THAN BASE OIL FRACTION
416
414
412
USED OIL
STAGE #1
SEPARATION OF BASE OIL FRACTION
420
426
422
STAGE #2
SEVERE SEPARATION OF ULTRA HIGH QUALITY BASE OIL
424
ULTRA HIGH QUALITY BASE OIL

FIG. 5


WASTE OIL CONSTITUENTS OTHER THAN BASE OIL FRACTION
516
514
512
USED OIL
STAGE #1
SEPARATION OF BASE OIL FRACTION
520
523
522
STAGE #2
SEPARATION OF HIGH QUALITY BASE OIL
524
527
525
STAGE #3
TREATMENT OF HIGH QUALITY BASE OIL
526
HIGHLY PURIFIED BASE OIL