

Figure 1

CONTAINS POTENTIALLY
PATENTABLE DATA-
NOT FOR PUBLICATION

Co/Zr RATIO EFFECT ON ACTIVITY

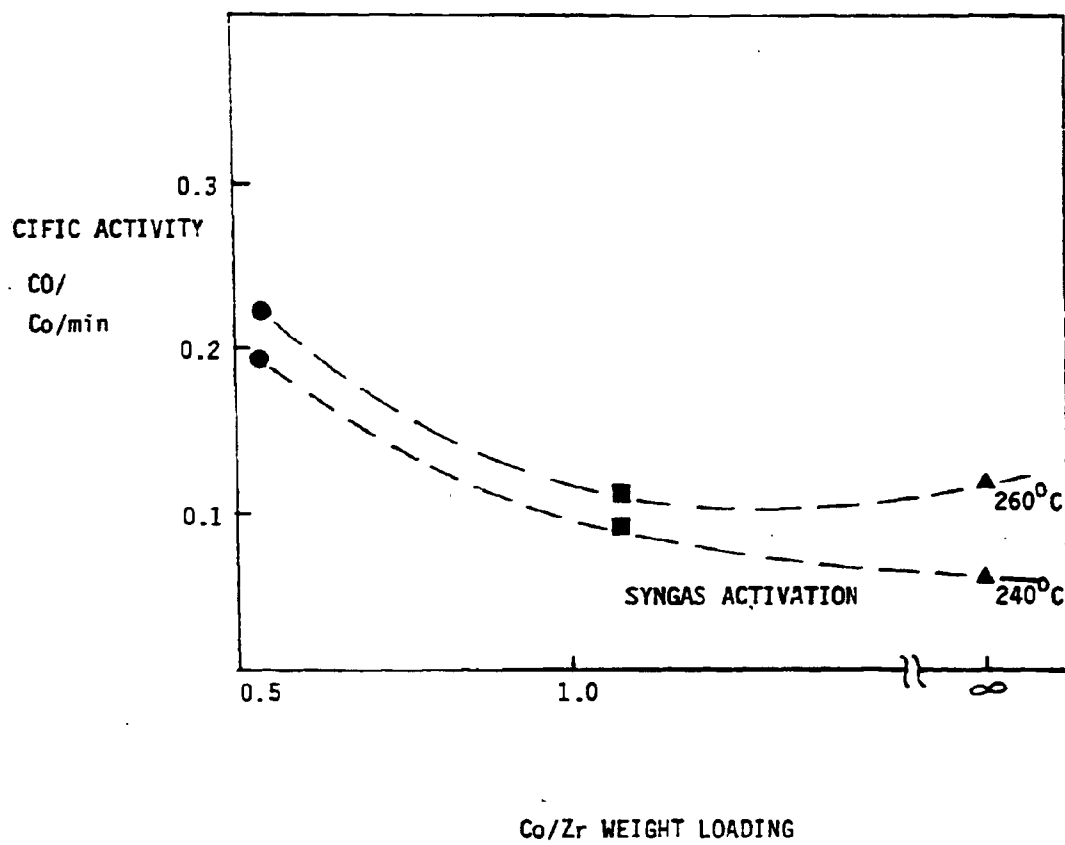
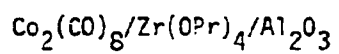


Figure 2

HYDROCARBON WEIGHT DISTRIBUTION

7888-1-589-4

CONTAINS POTENTIALLY
PATENTABLE DATA -
NOT FOR PUBLICATION

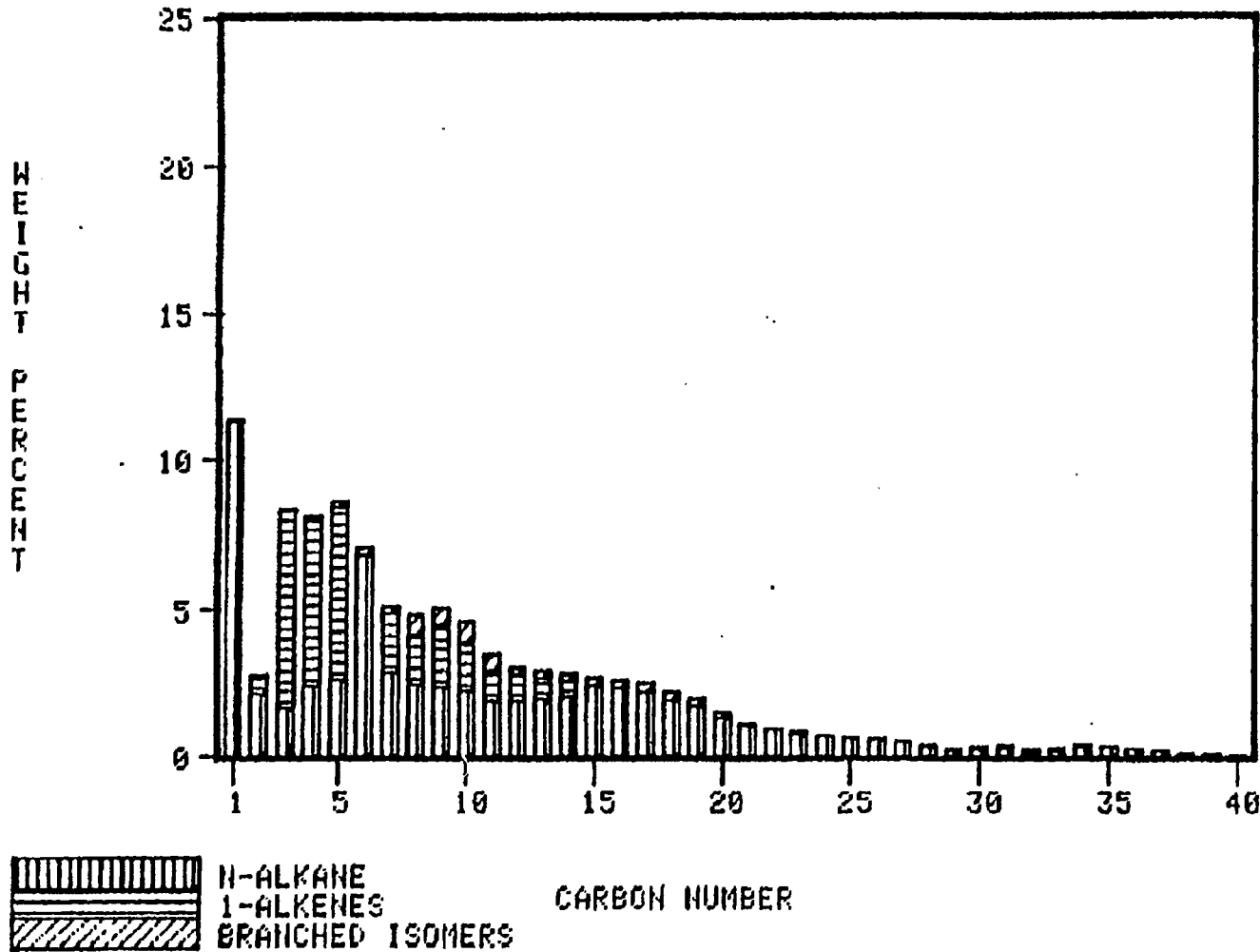


Figure 3

CONTAINS POTENTIALLY
PATENTABLE DATA -
NOT FOR PUBLICATION

HYDROCARBON WEIGHT DISTRIBUTION

7888-1-589-6

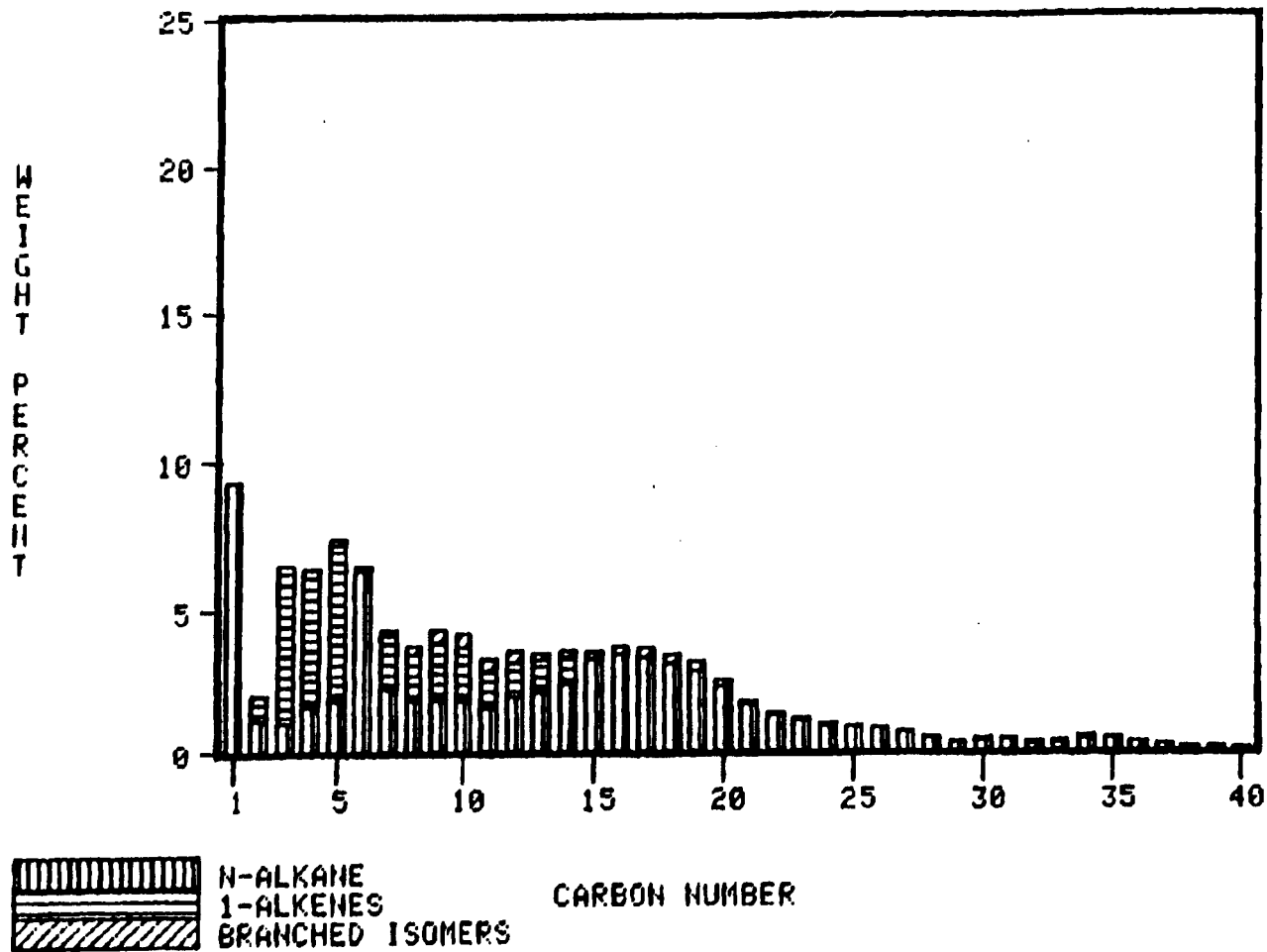


Figure 4

CONTAINS POTENTIALLY
PATENTABLE DATA -
NOT FOR PUBLICATION

HYDROCARBON WEIGHT DISTRIBUTION

7888-1-589-9

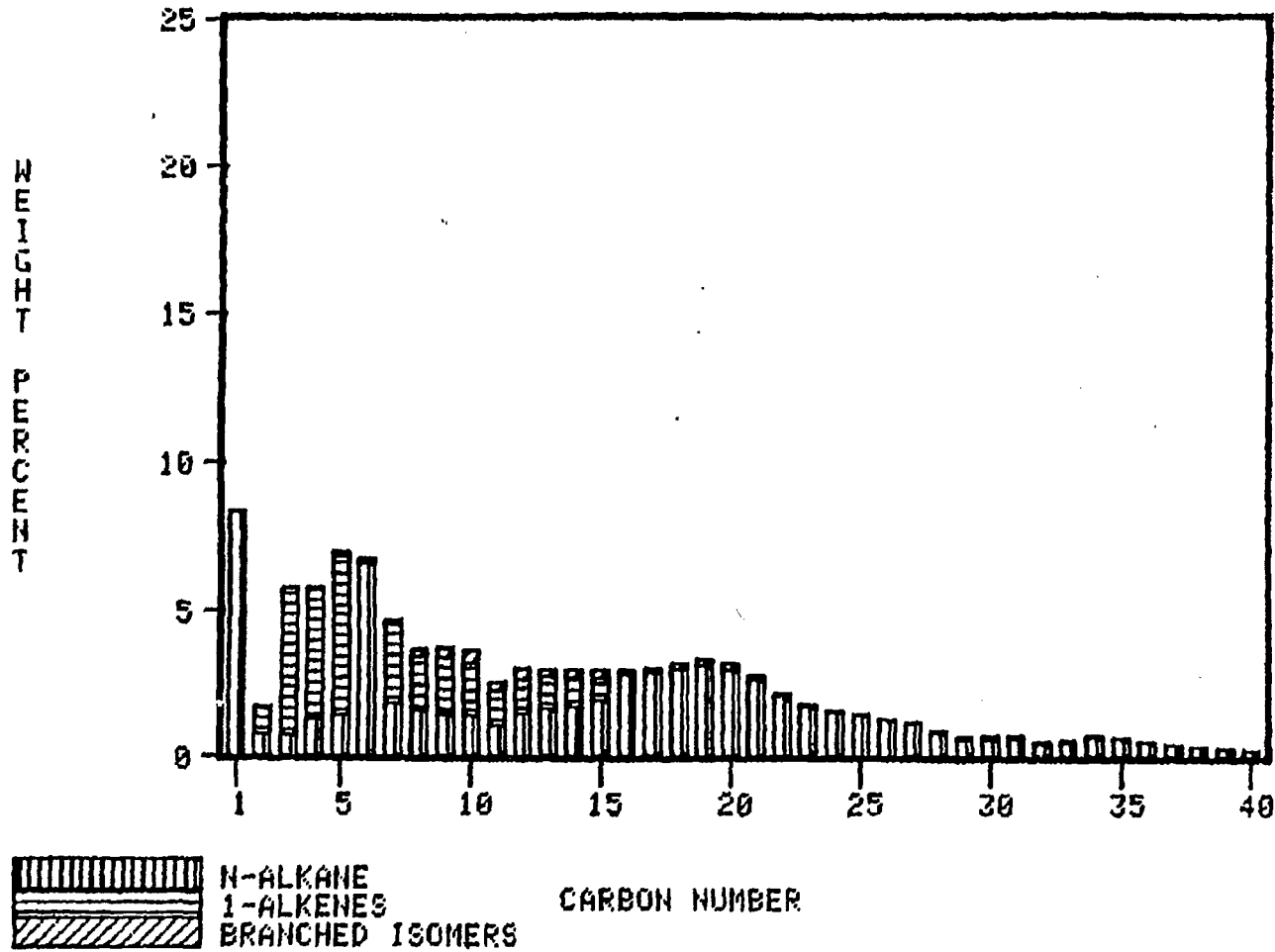


Figure 5

CONTAINS POTENTIALLY
PATENTABLE DATA -
NOT FOR PUBLICATION

HYDROCARBON WEIGHT DISTRIBUTION

7888-1-589-12

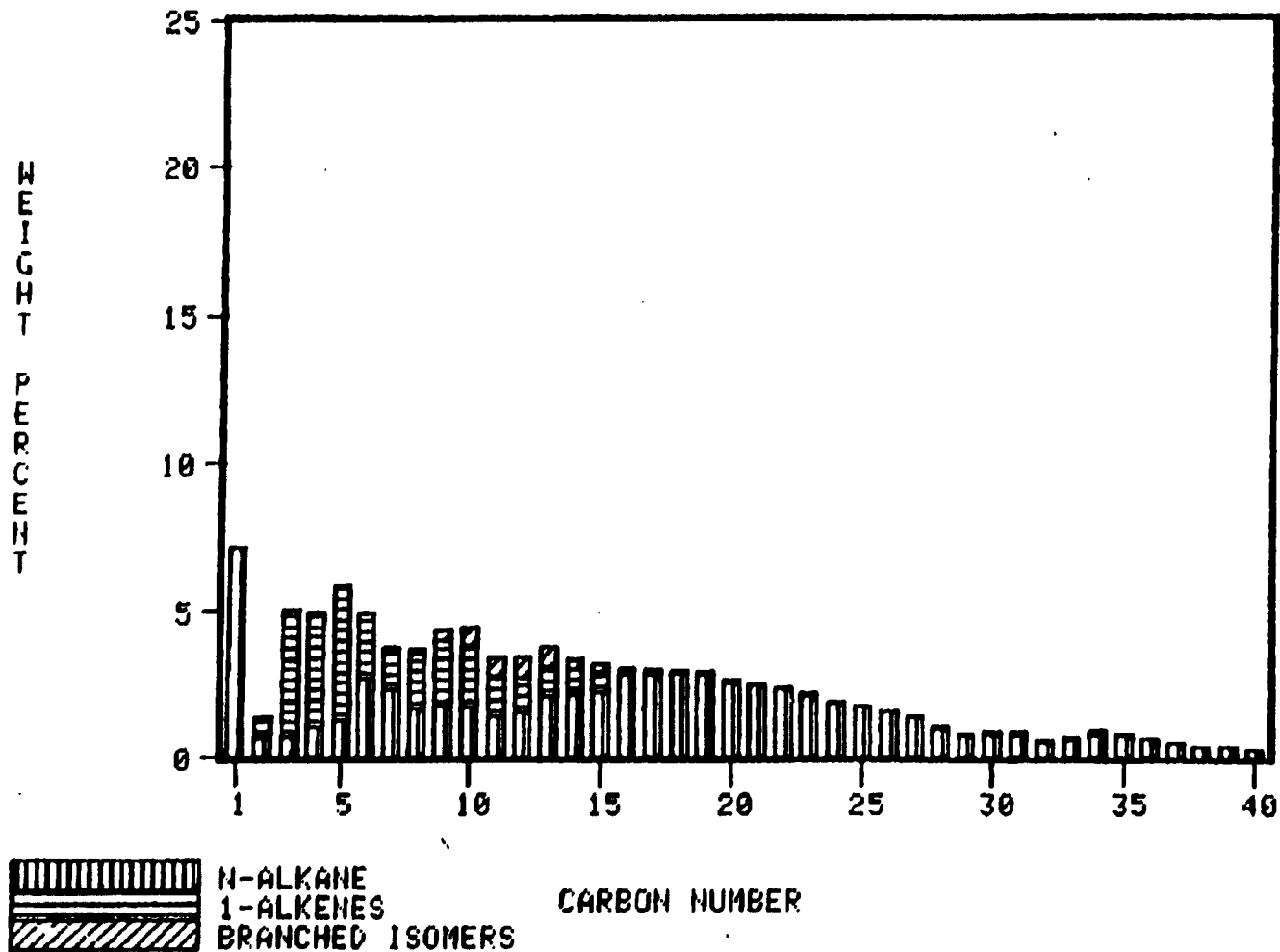


Figure 6

HYDROCARBON WEIGHT DISTRIBUTION

7888-1-389-15

CONTAINS POTENTIALLY
PATENTABLE DATA.
NOT FOR DISSEMINATION

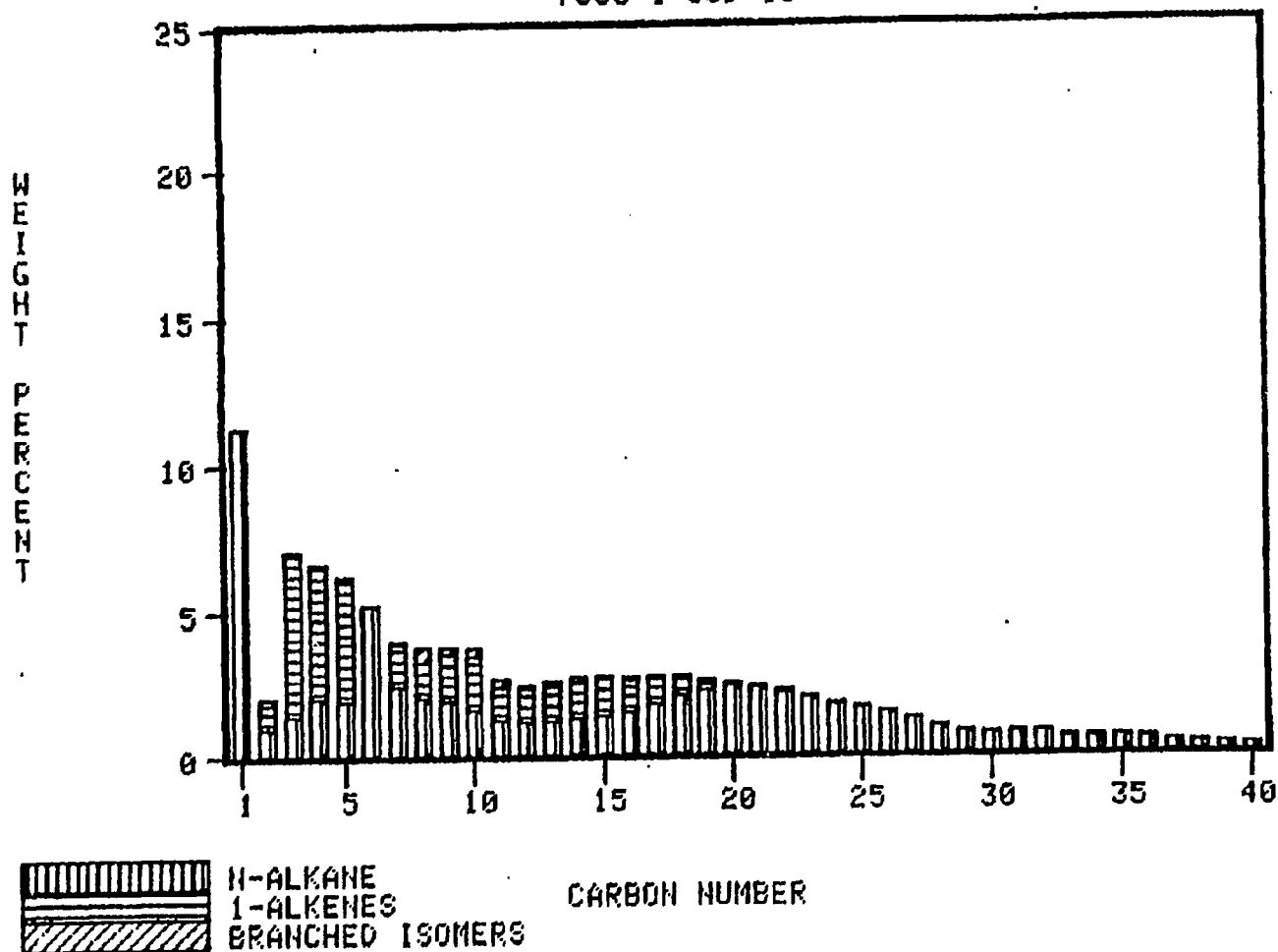
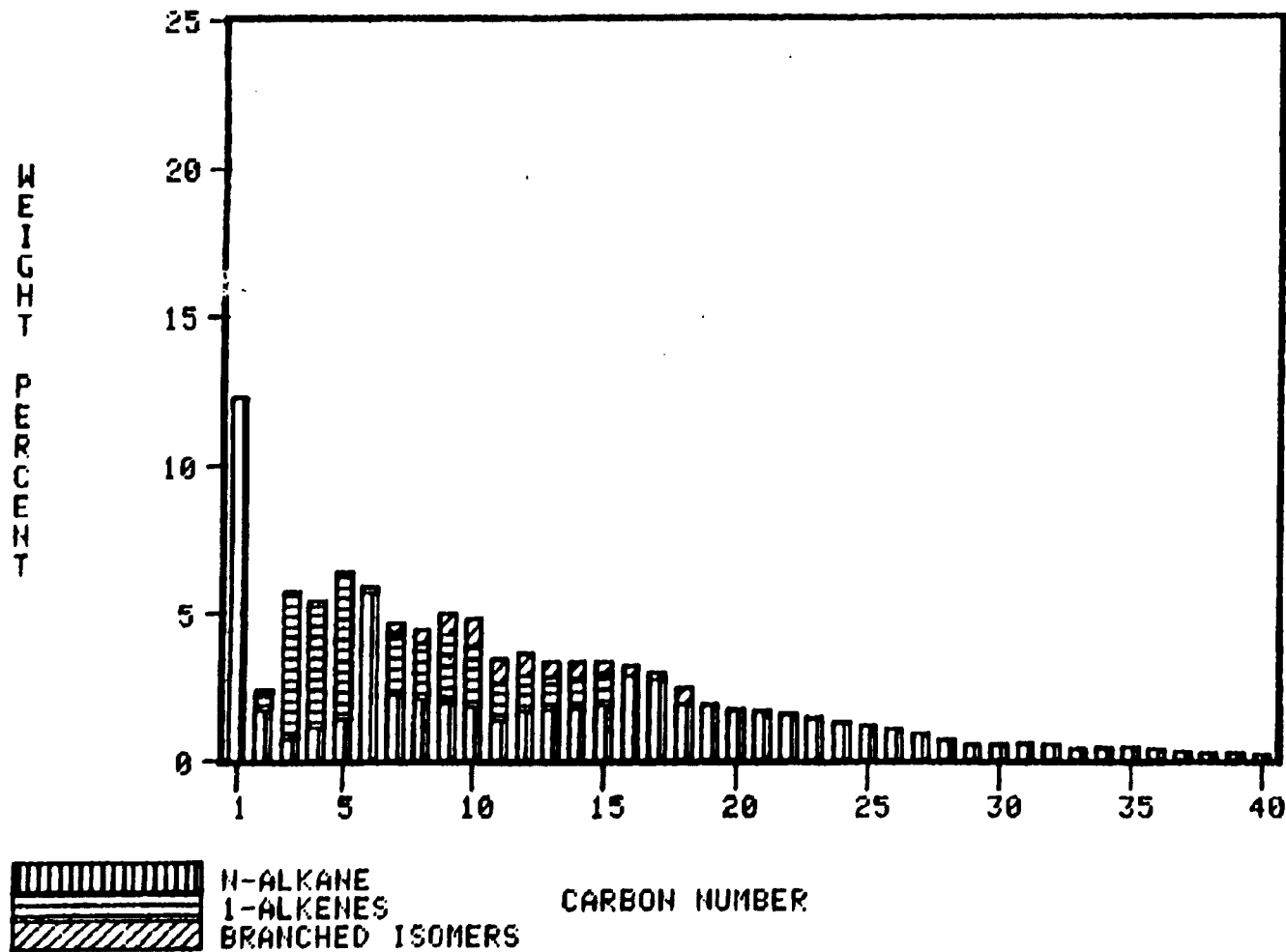


Figure 7

HYDROCARBON WEIGHT DISTRIBUTION
7888-1-589-17

CONTAINS POTENTIALLY
PARENTAL DATA.
NOT FOR PUBLICATION



230

Figure 8

HYDROCARBON WEIGHT DISTRIBUTION

7888-1-589-20

CONTAINS POTENTIALLY
PATENTABLE DATA.
NOT FOR PUBLICATION

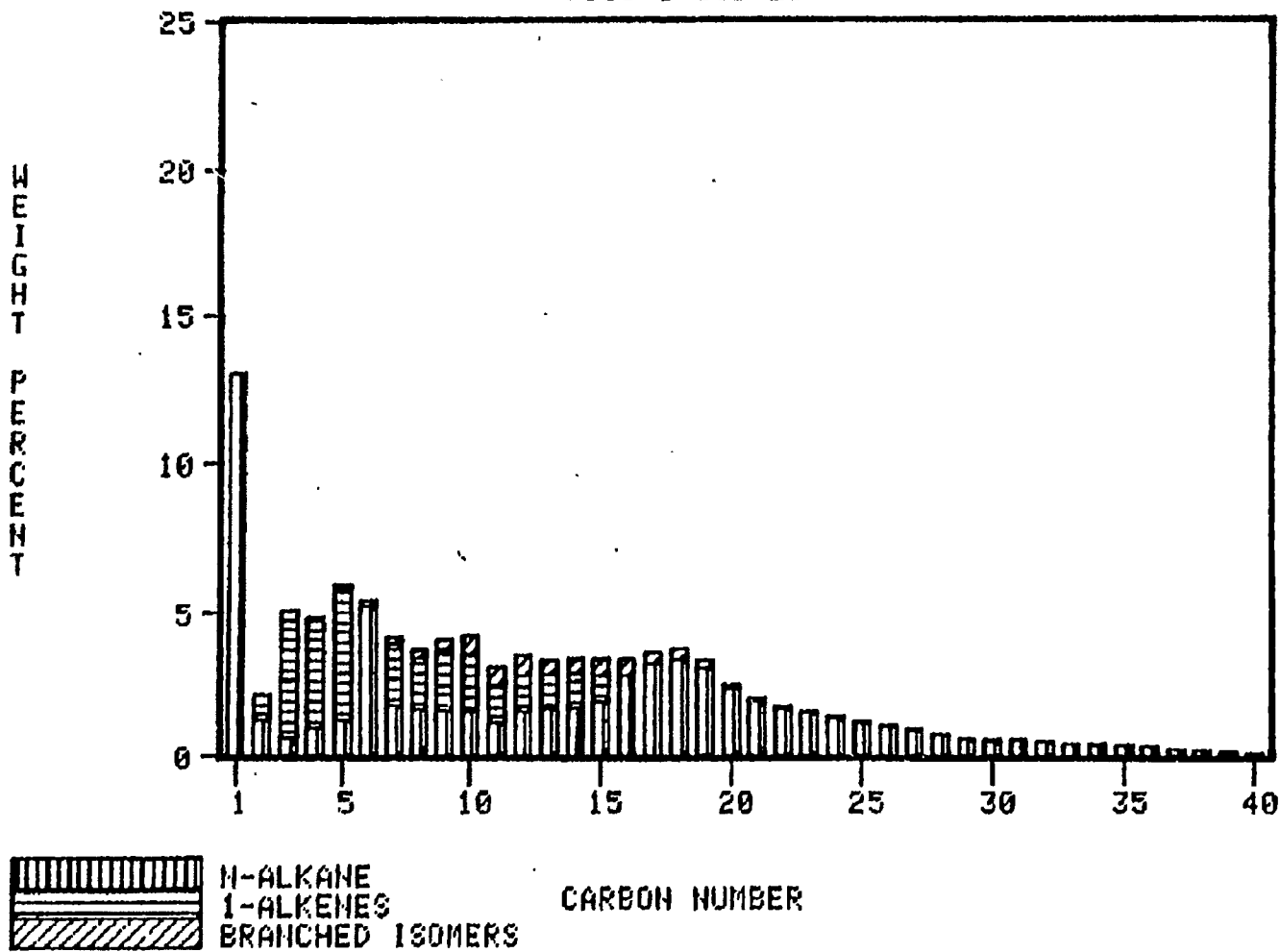


Figure 9

HYDROCARBON WEIGHT DISTRIBUTION

7888-1-589-22

CONTAINS POTENTIALLY
PATENTABLE DATA.
NOT FOR PUBLICATION

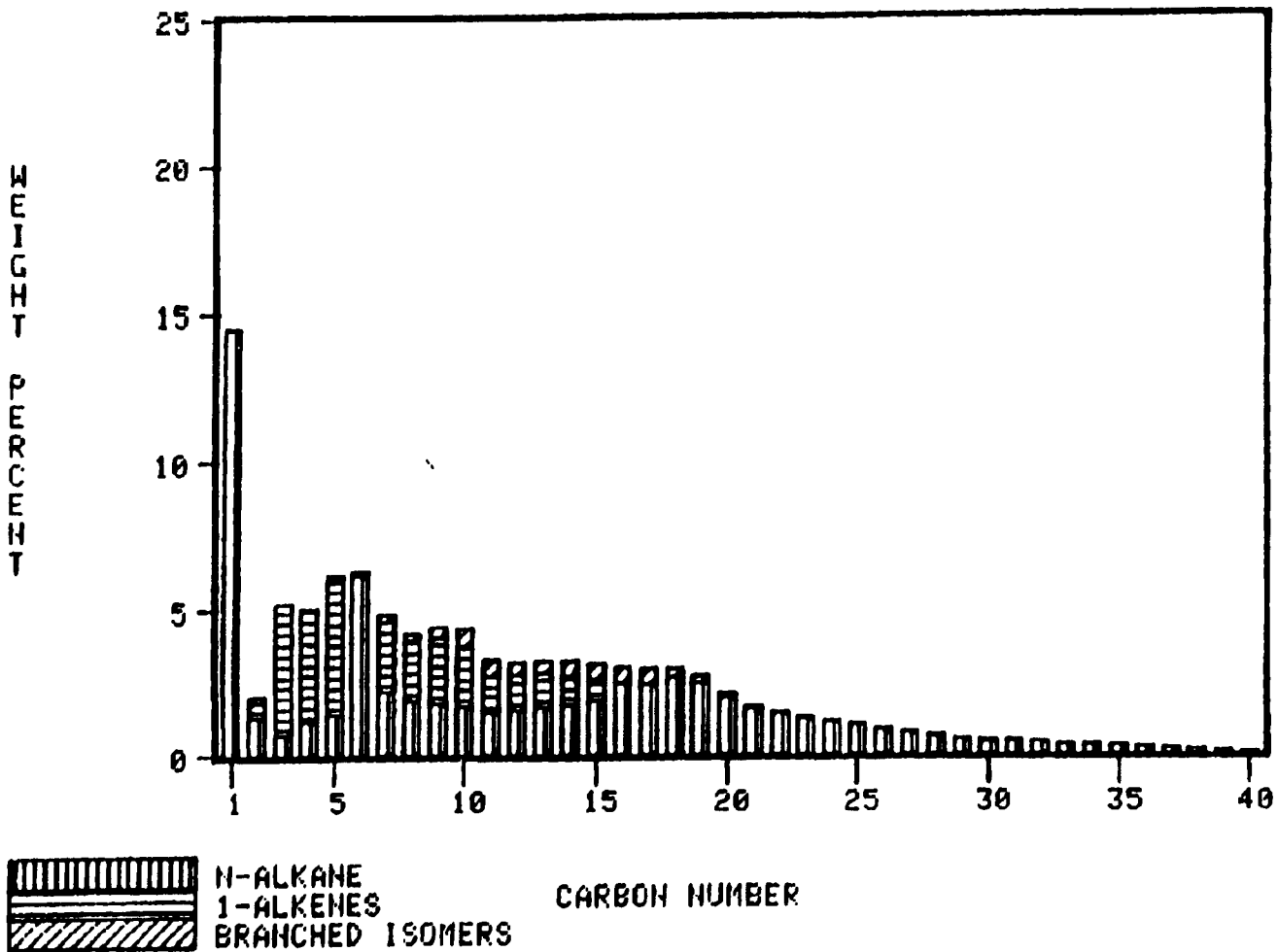


Figure 10

HYDROCARBON WEIGHT DISTRIBUTION

7888-1-589-24

CONTAINS POTENTIALLY
PATENTABLE DATA
NOT FOR PUBLICATION

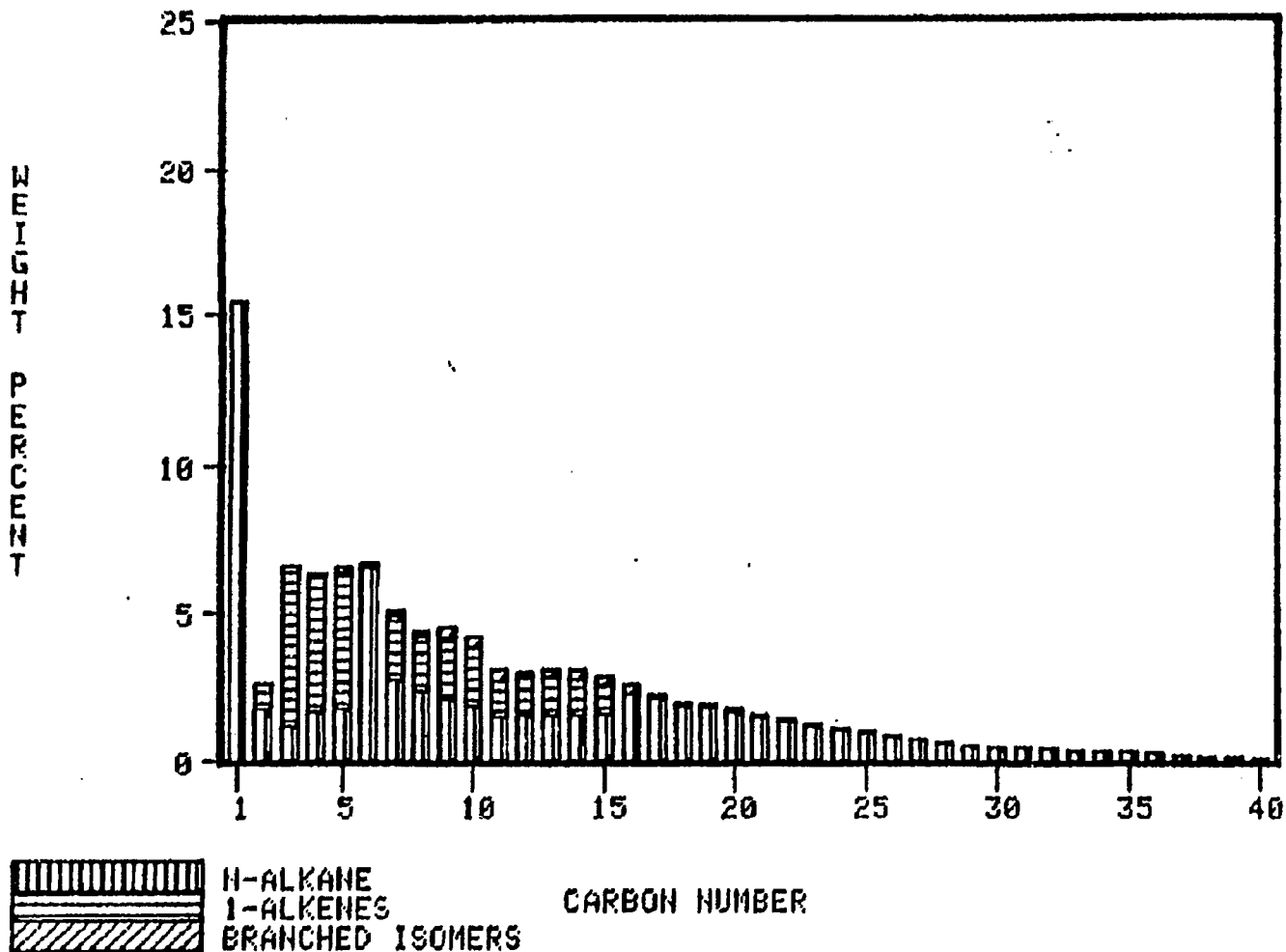


Figure 11

HYDROCARBON WEIGHT DISTRIBUTION
7888-1-589-26

CONTAINS POTENTIALLY
PATENTABLE DATA.
NOT FOR PUBLICATION

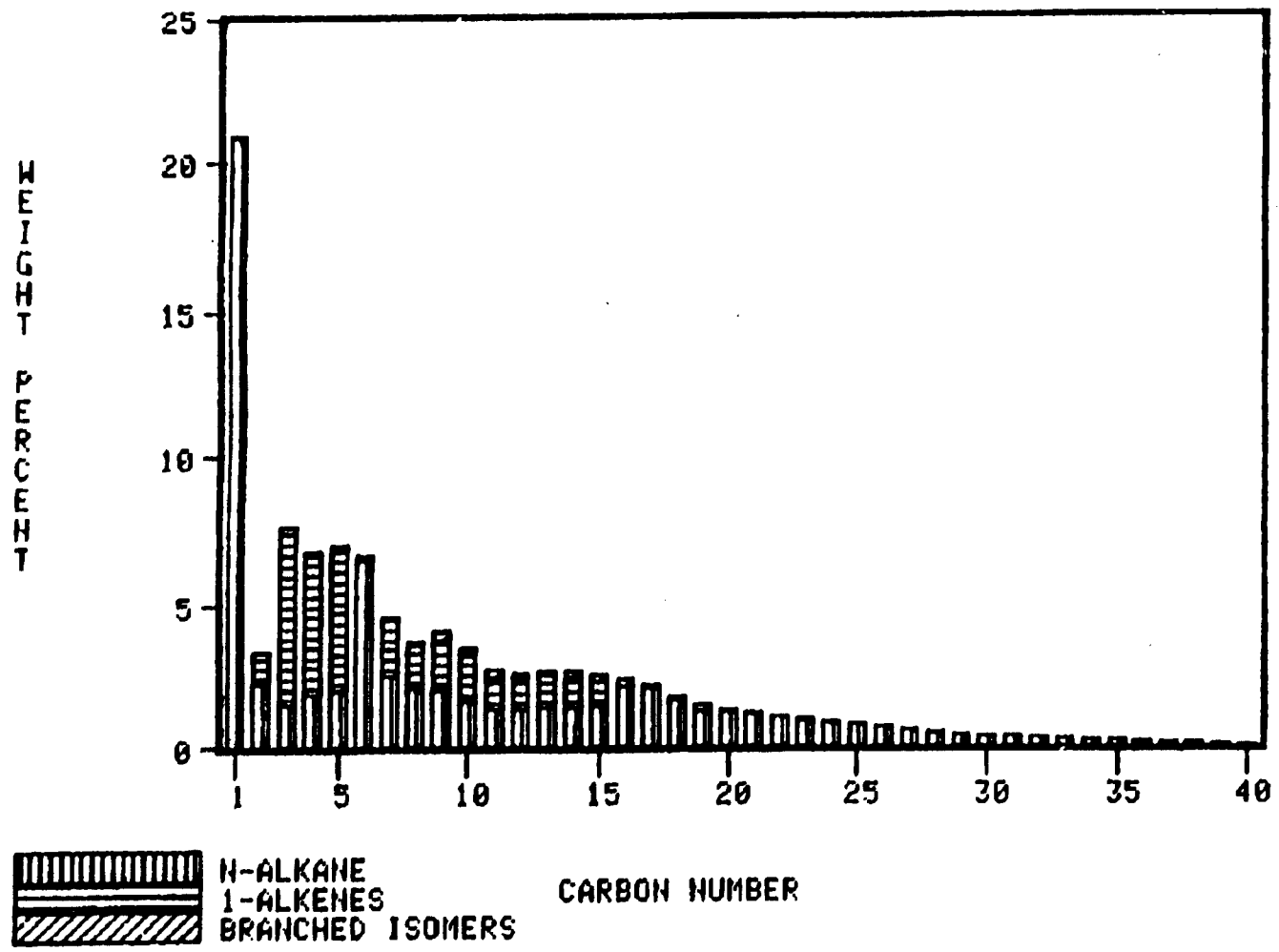


Figure 12

HYDROCARBON WEIGHT DISTRIBUTION

7888-1-589-31

CONTAINS POTENTIALLY
PATENTABLE DATA -
NOT FOR PUBLICATION

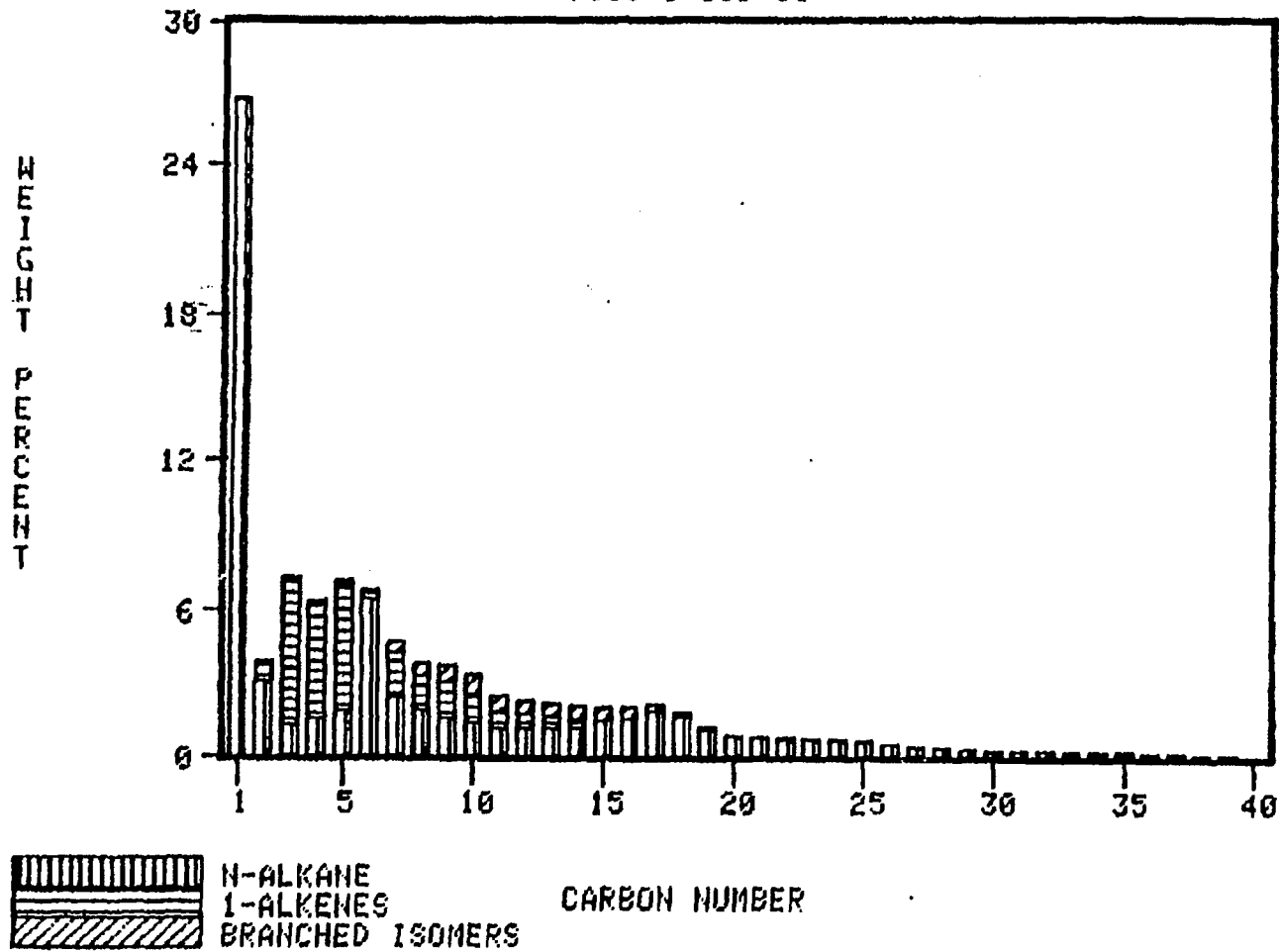


Figure 13

HYDROCARBON WEIGHT DISTRIBUTION
7888-1-589-33

CONTAINS POTENTIALLY
PATENTABLE DATA -
NOT FOR PUBLICATION

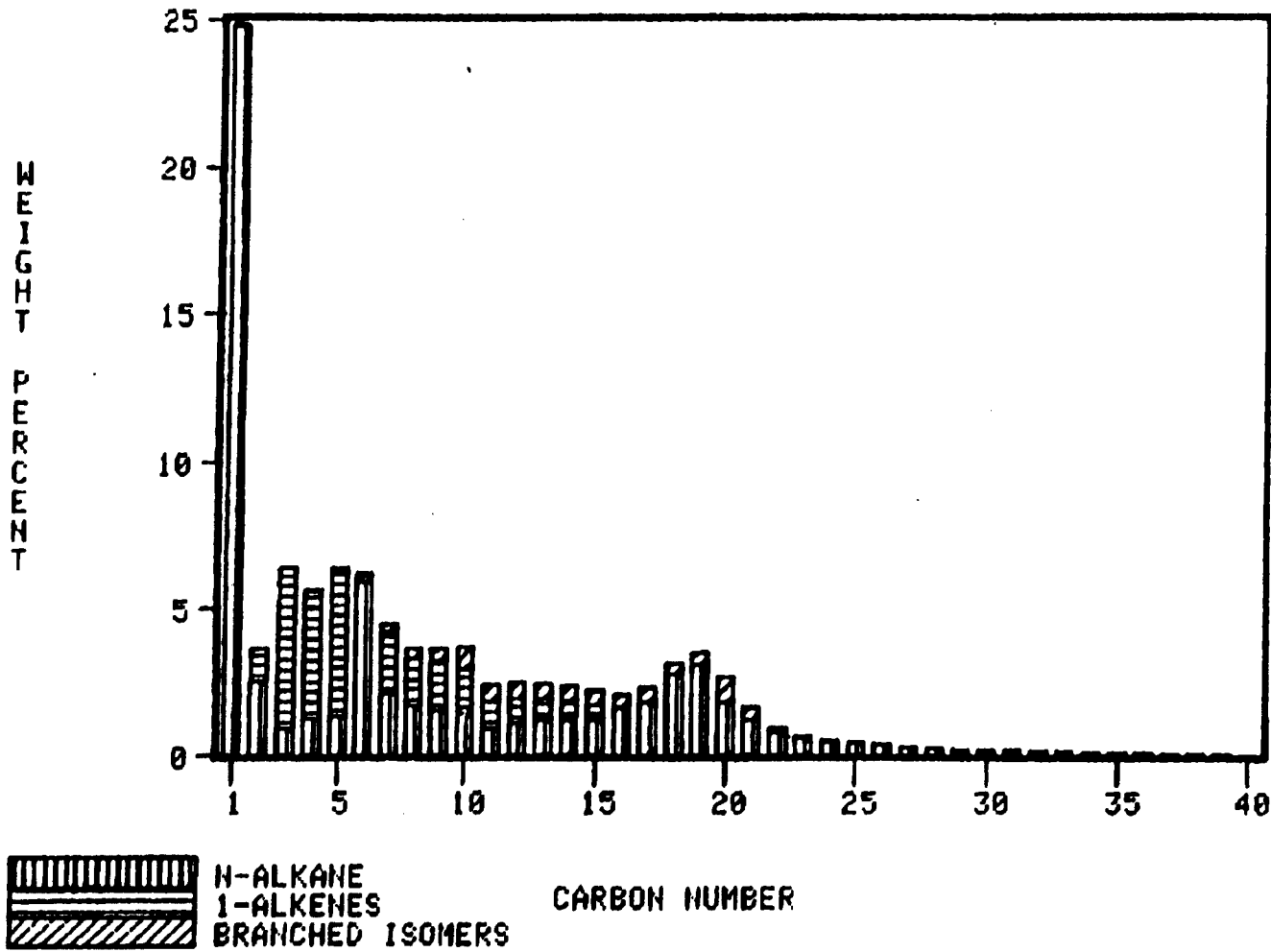


Figure 14

HYDROCARBON WEIGHT DISTRIBUTION

7888-1-589-35

CONTAINS POTENTIALLY
PATENTABLE DATA -
NOT FOR PUBLICATION

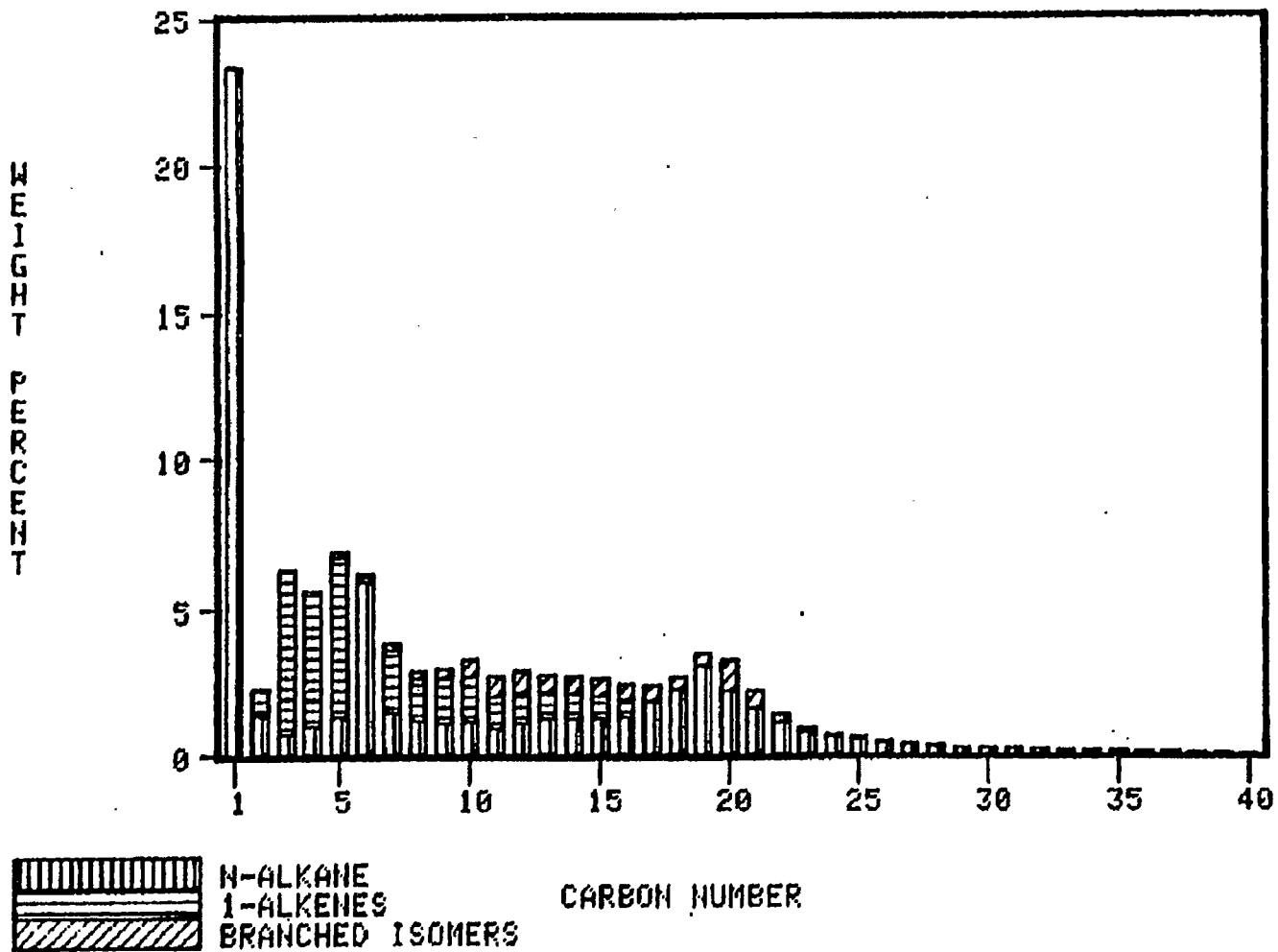


Figure 1b

HYDROCARBON WEIGHT DISTRIBUTION
7868-1-589-37

CONTAINS CONFIDENTIAL
PROPERTY DATA.
NOT FOR PUBLICATION

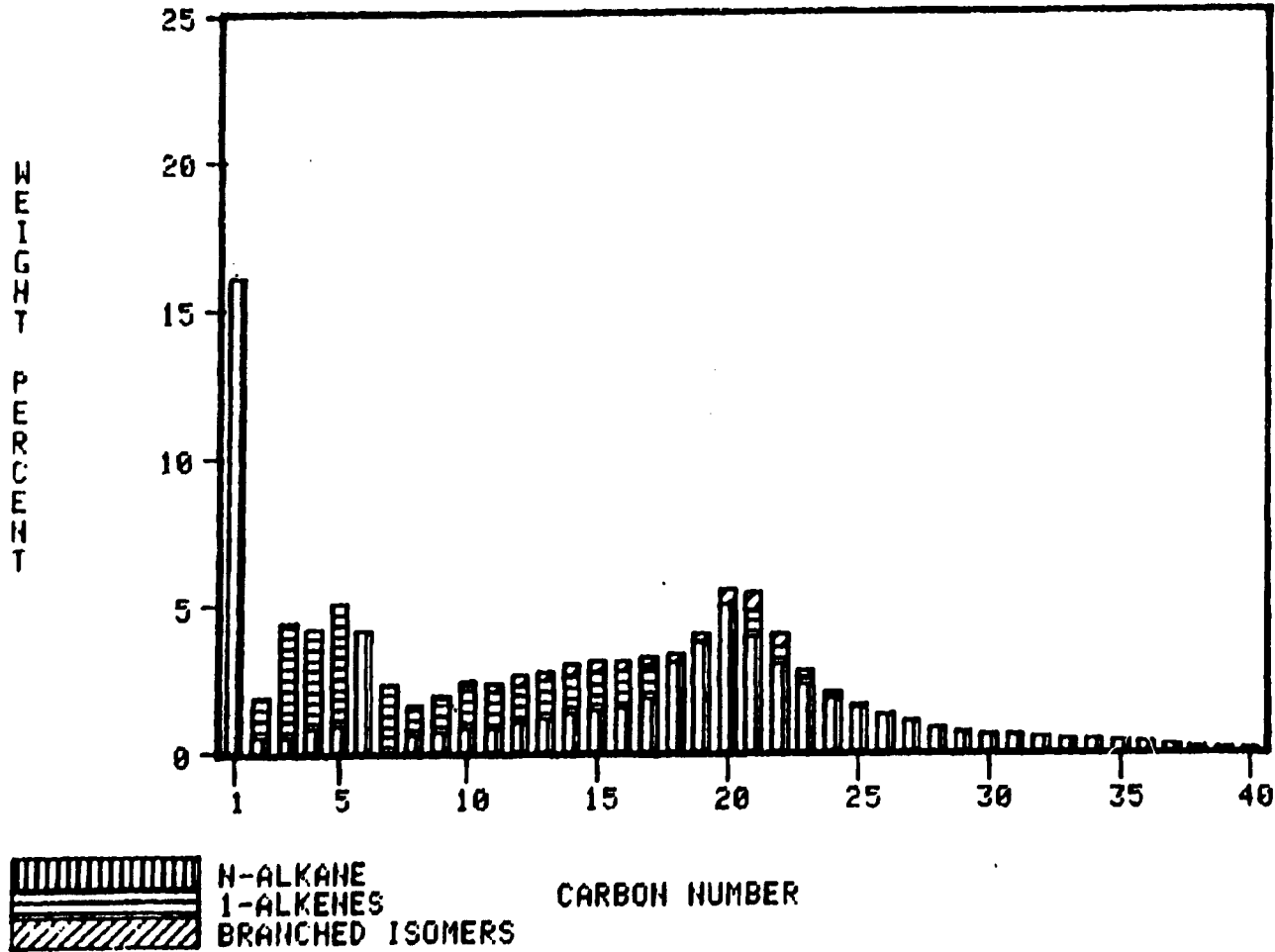
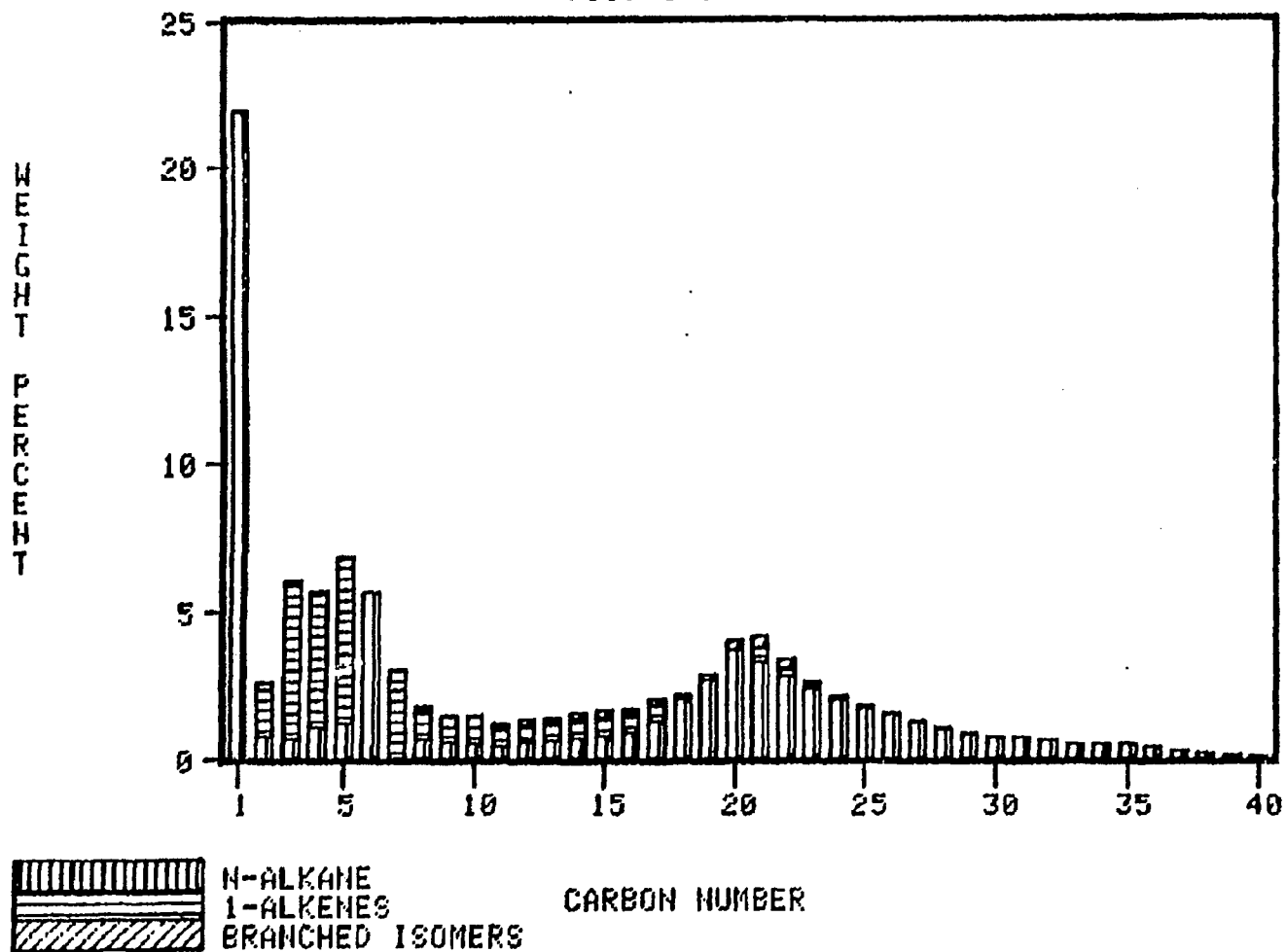


Figure 16

HYDROCARBON WEIGHT DISTRIBUTION

7888-1-589-41

CONTAINS POTENTIALLY
ERRONEOUS DATA.
DO NOT REPRODUCE



500

Figure 17

HYDROCARBON WEIGHT DISTRIBUTION
7888-33-731-8

CONTAINS POTENTIALLY
ERRONEOUS DATA -
NOT FOR QUANTIFICATION

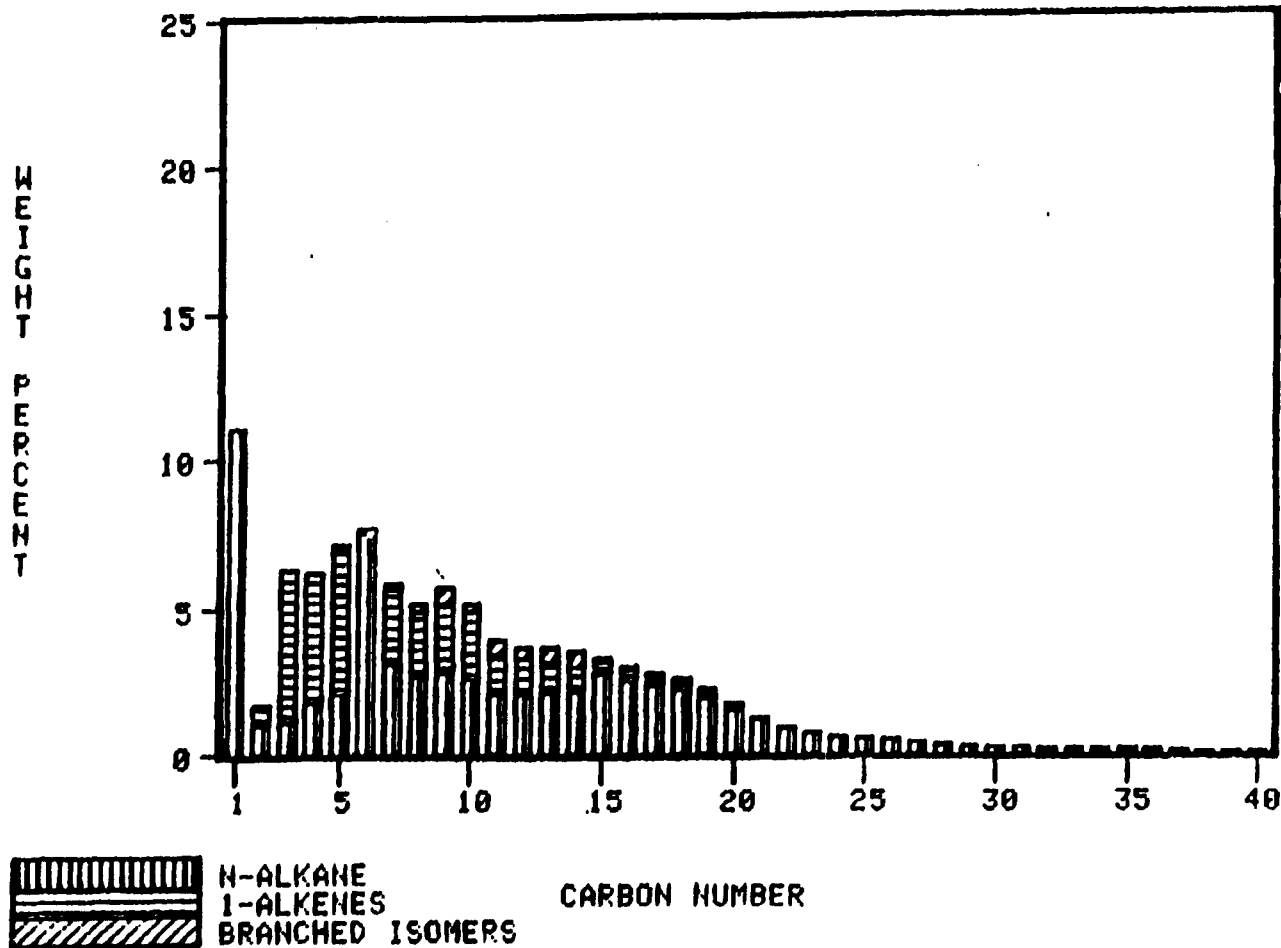
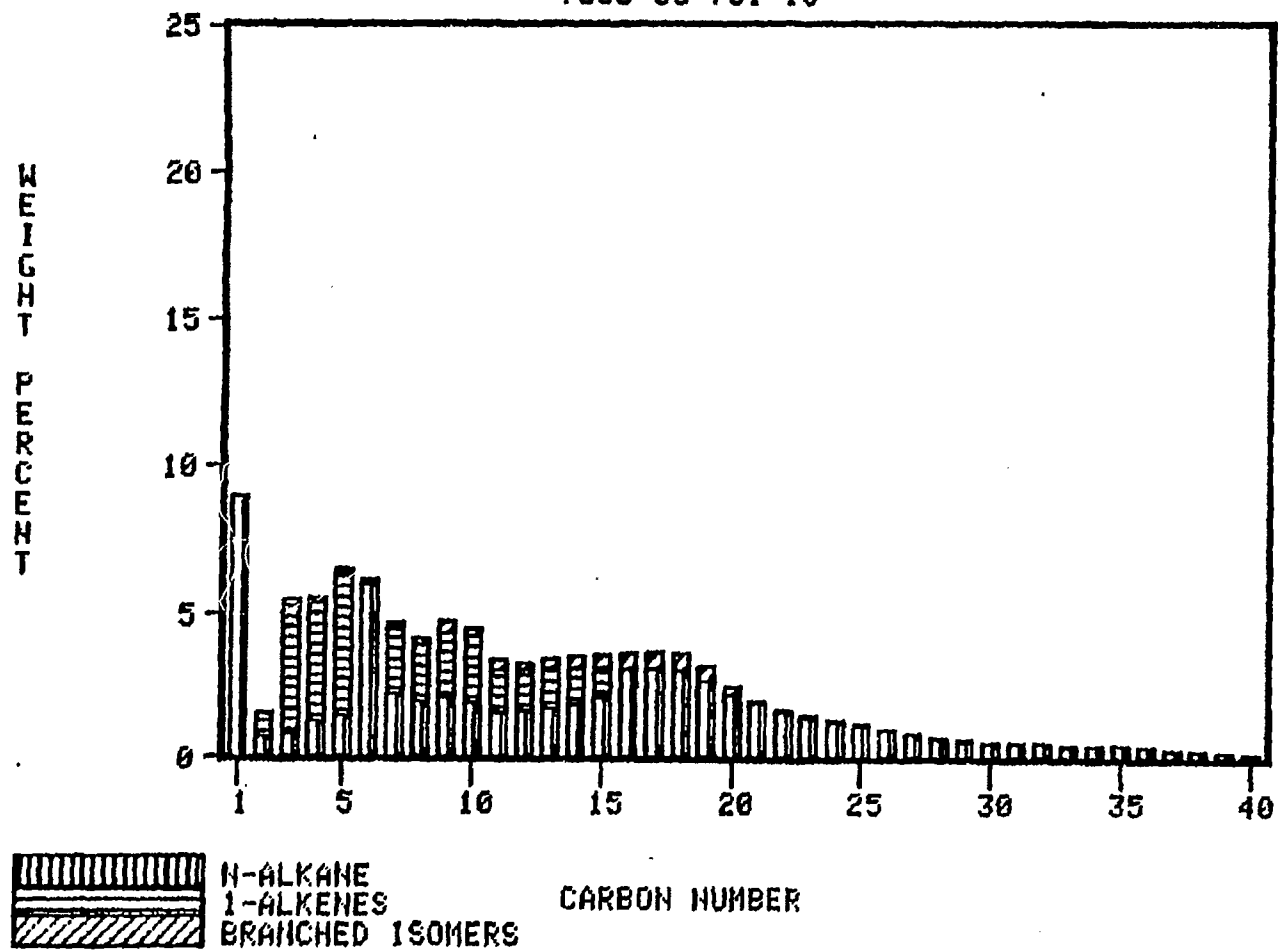


Figure 18

HYDROCARBON WEIGHT DISTRIBUTION

7888-33-731-10

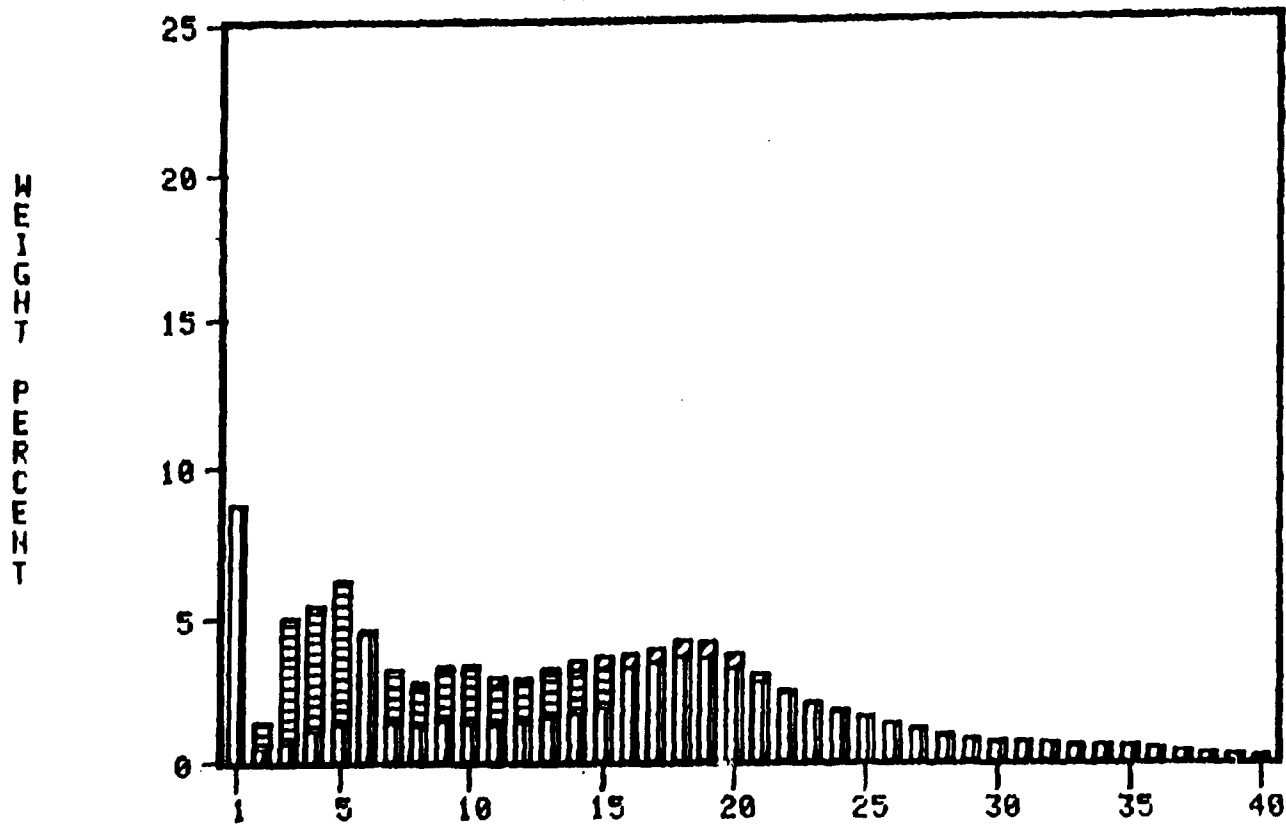
CONTAINS POTENTIALLY
POTENTIALLY DATA -
NOT FOR PUBLICATION



HYDROCARBON WEIGHT DISTRIBUTION

7888-33-731-12

CONTAINS POTENTIALLY
PATENTABLE DATA -
NOI FOR PUBLICATION



 N-ALKANE
1-ALKENES
BRANCHED ISOMERS

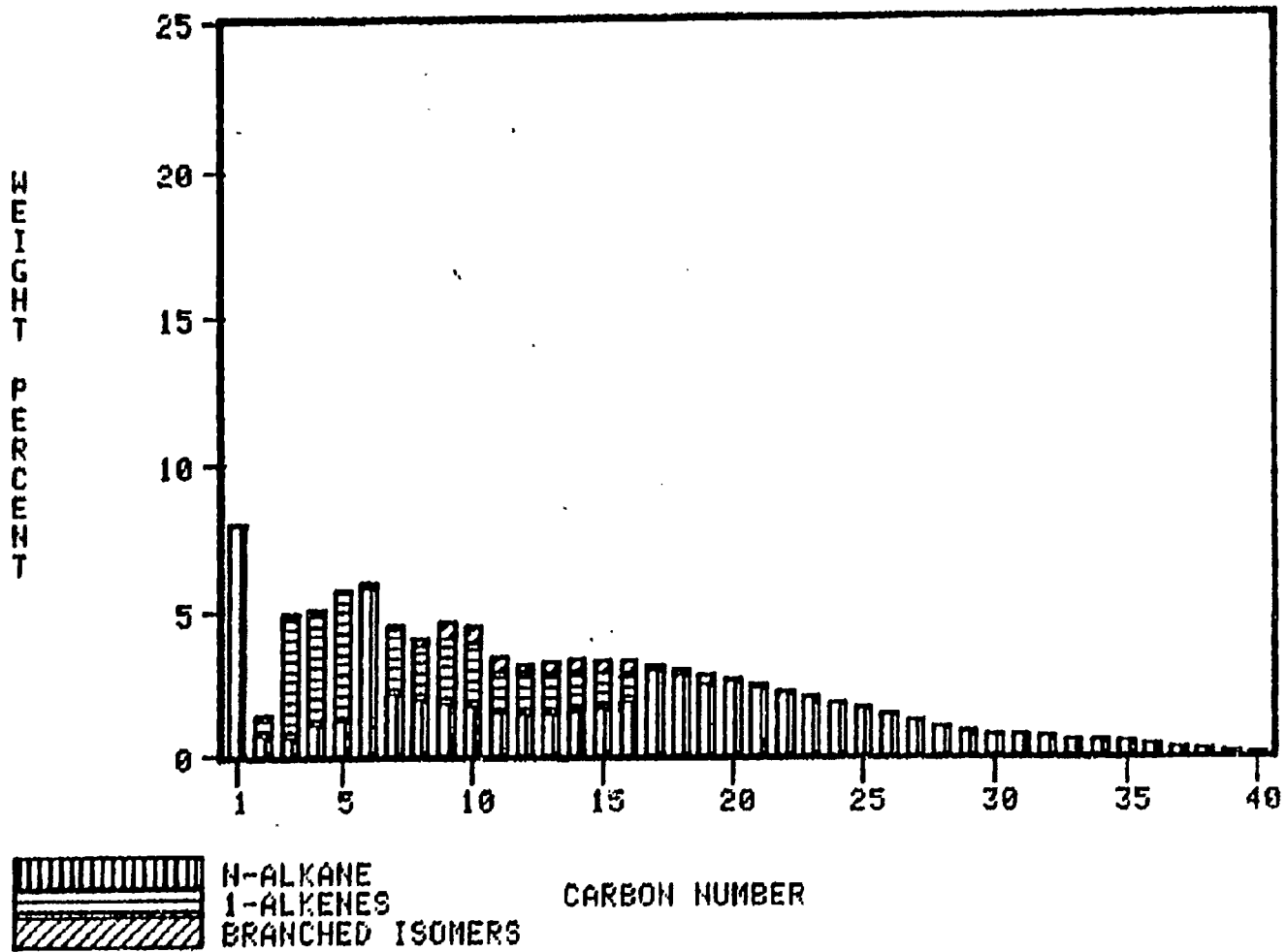
CARBON NUMBER

Figure 20

HYDROCARBON WEIGHT DISTRIBUTION

7888-33-731-16

CONTAINS POTENTIALLY
PAINFUL DATA -
NOT FOR PUBLICATION



HYDROCARBON WEIGHT DISTRIBUTION

7888-33-731-21

CONTAINS POTENTIALLY
PATENTABLE DATA -
NOT FOR PUBLICATION

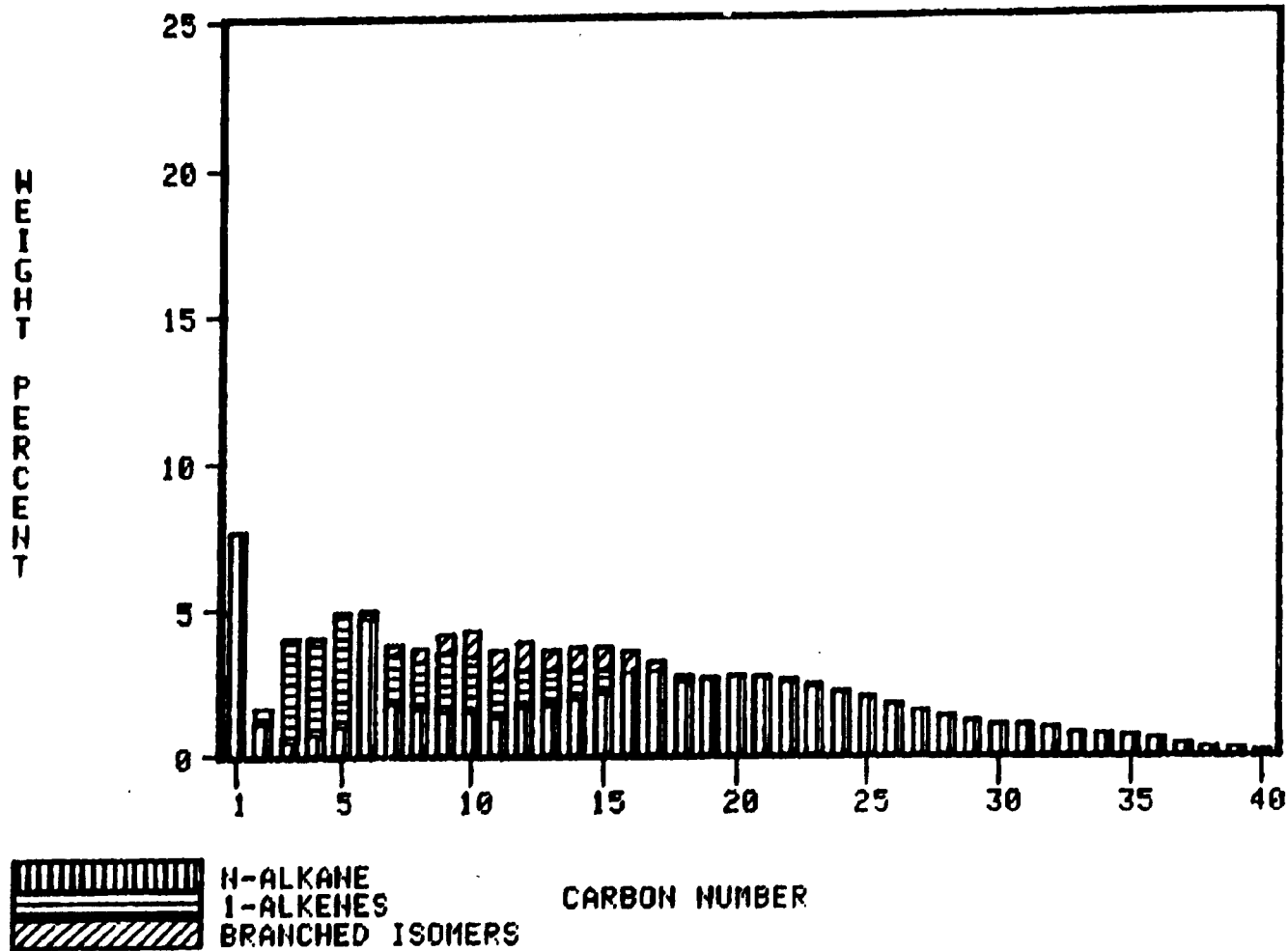
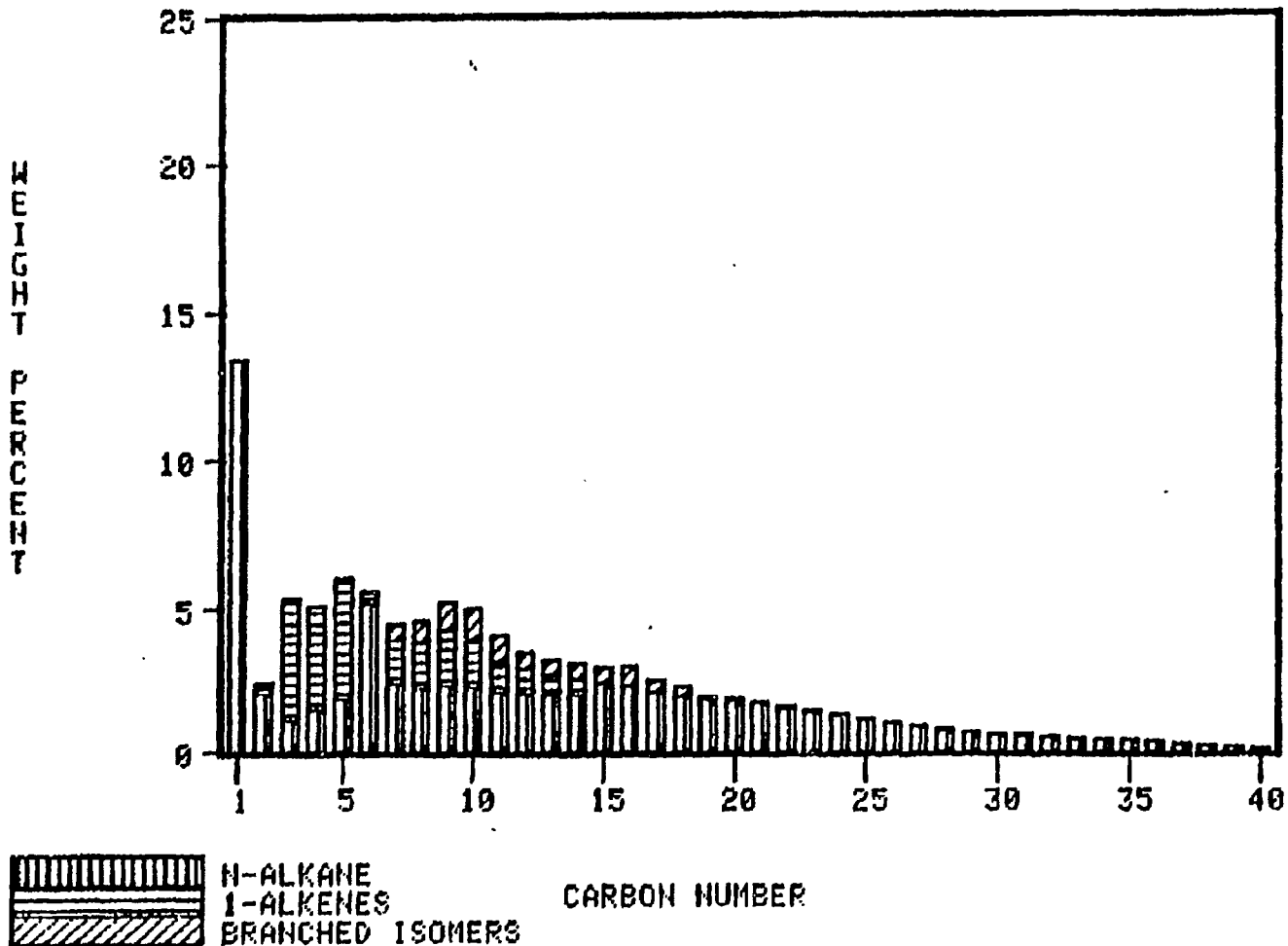


Figure 22

HYDROCARBON WEIGHT DISTRIBUTION
7888-33-731-24

CONTAINS PREDOMINANTLY
PARAFFINIC COMPOUNDS
AND POLYAROMATIC



245

Figure 23

HYDROCARBON WEIGHT DISTRIBUTION

7888-33-731-29

CONTAINS HYDROCARBONS
PRODUCED BY
HOT SPOTS SYSTEM

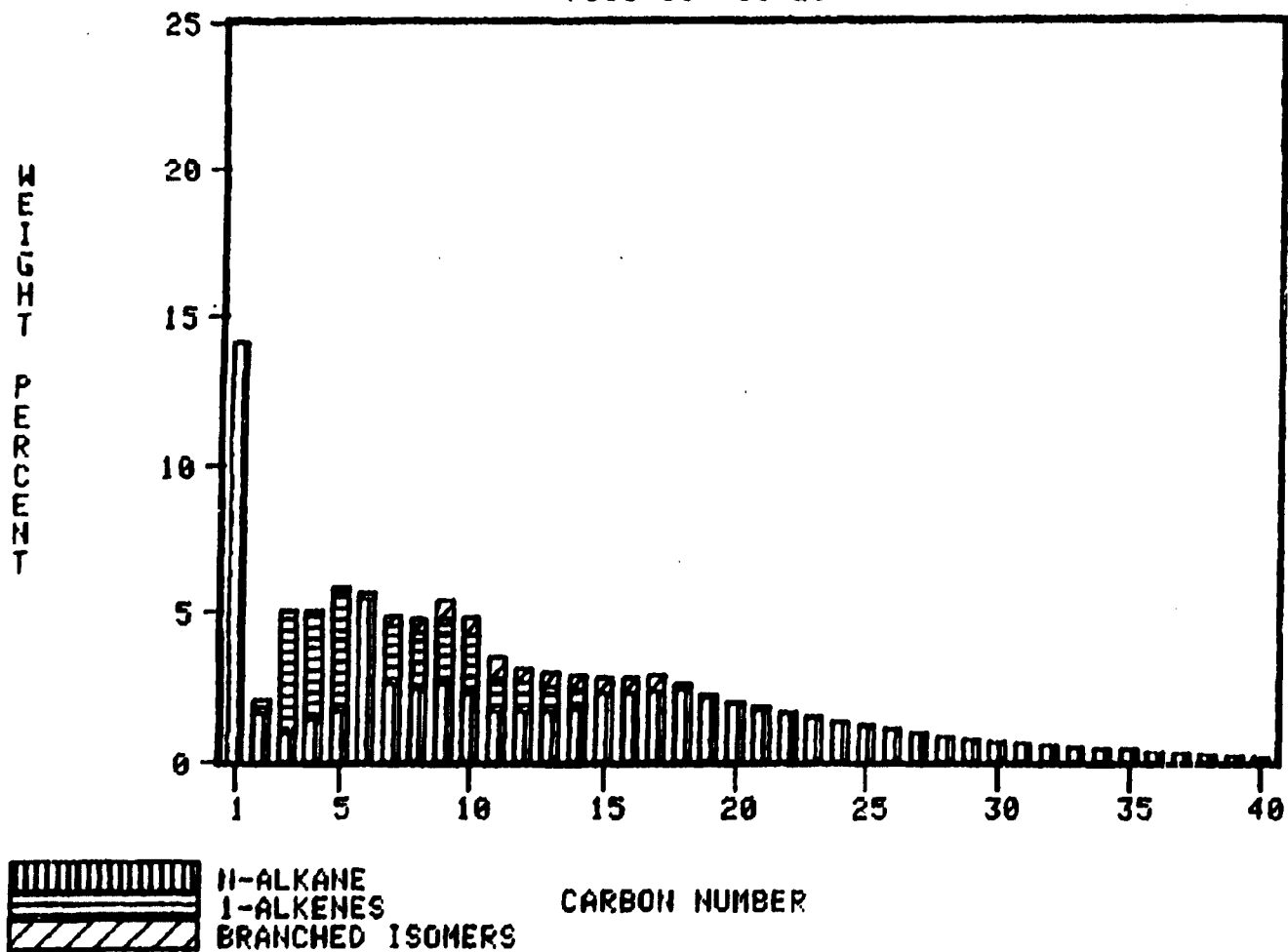
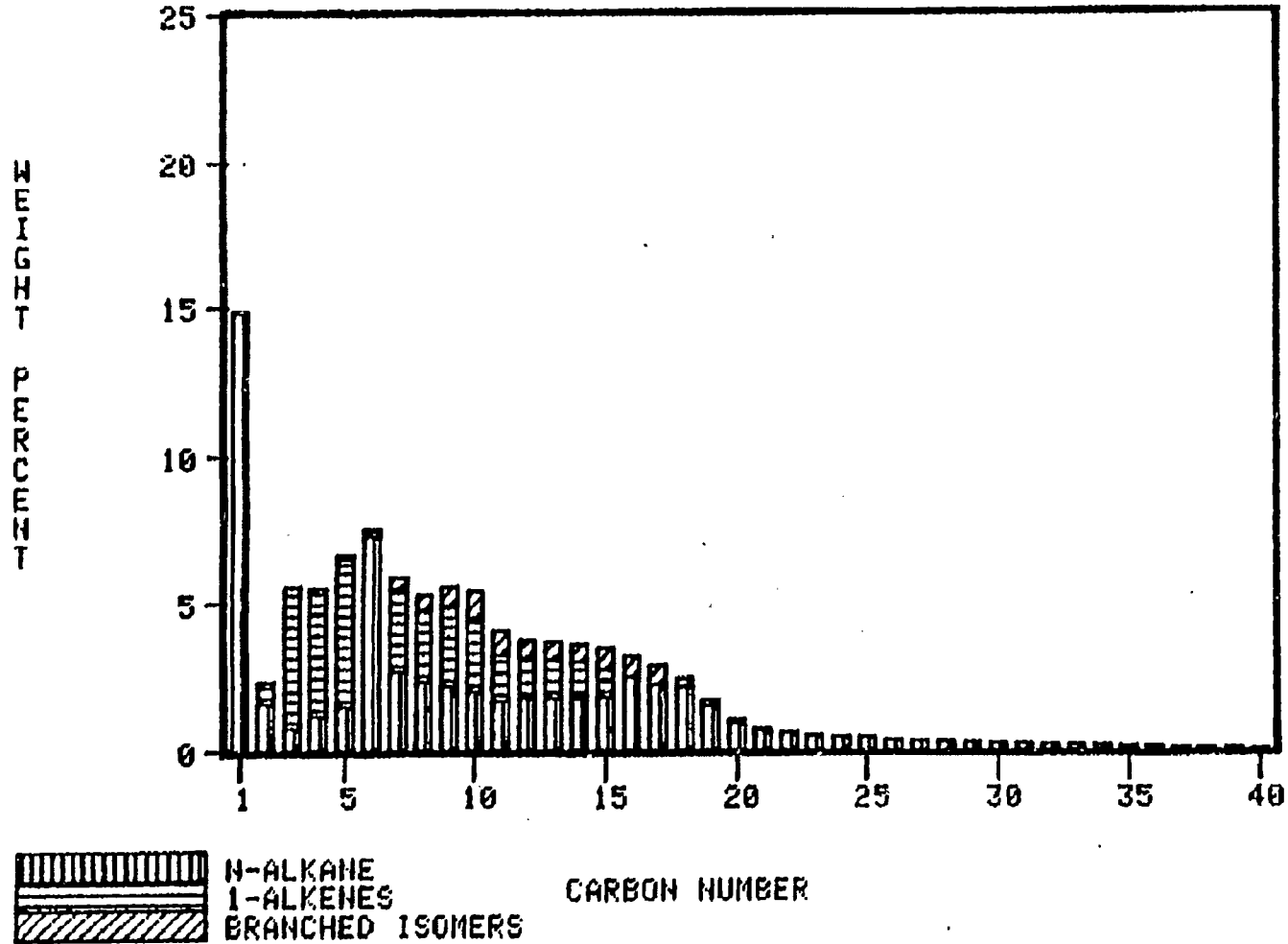


Figure 24

HYDROCARBON WEIGHT DISTRIBUTION

7888-33-731-33

CONTAINS IDENTIFIALLY
PREPARED DATA -
NOT FOR DISCUSSION



247

Figure 25

HYDROCARBON WEIGHT DISTRIBUTION
7888-33-731-36

CONTAINS POTENTIALLY
HARMFUL MATERIALS -
USE FOR PRECAUTION

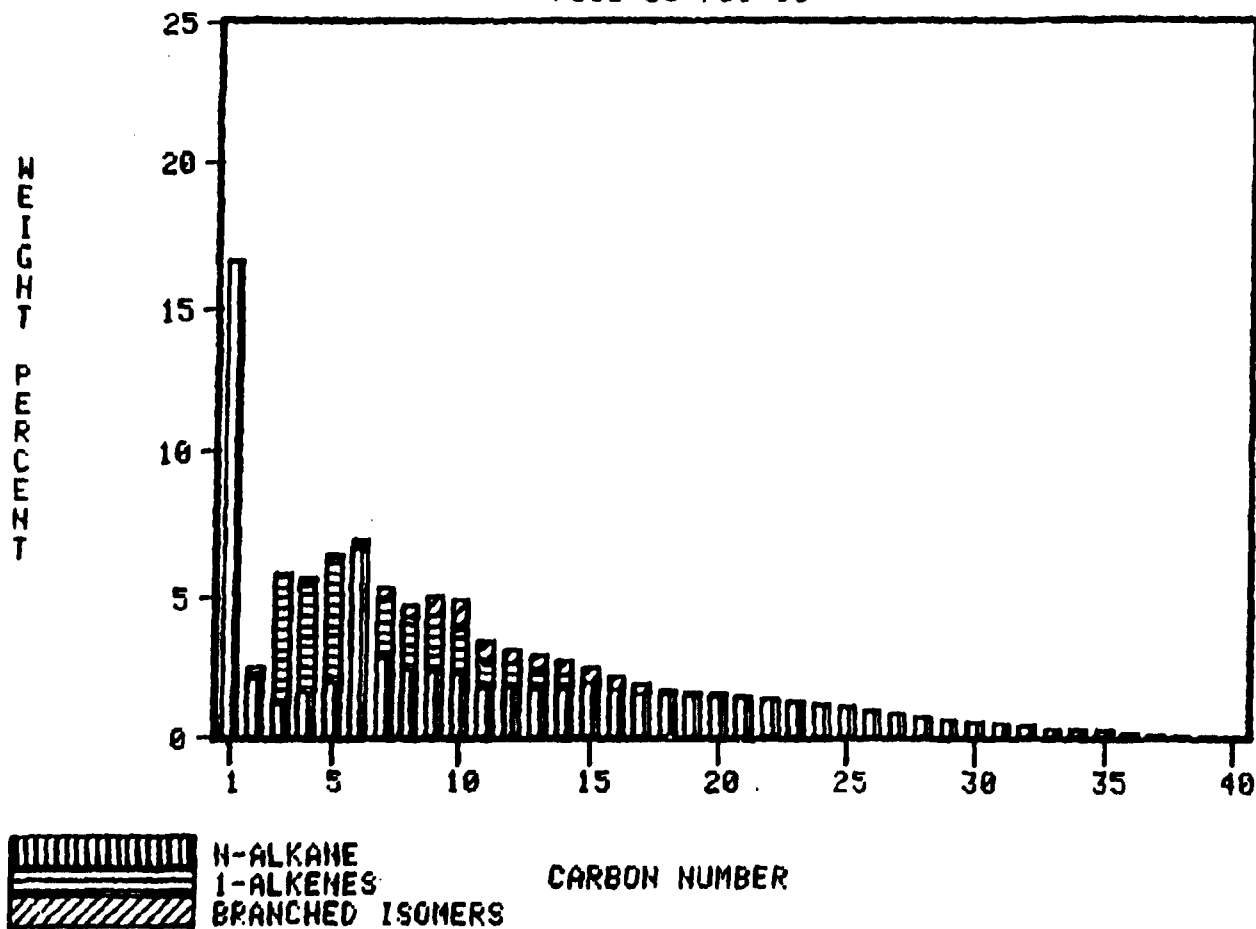
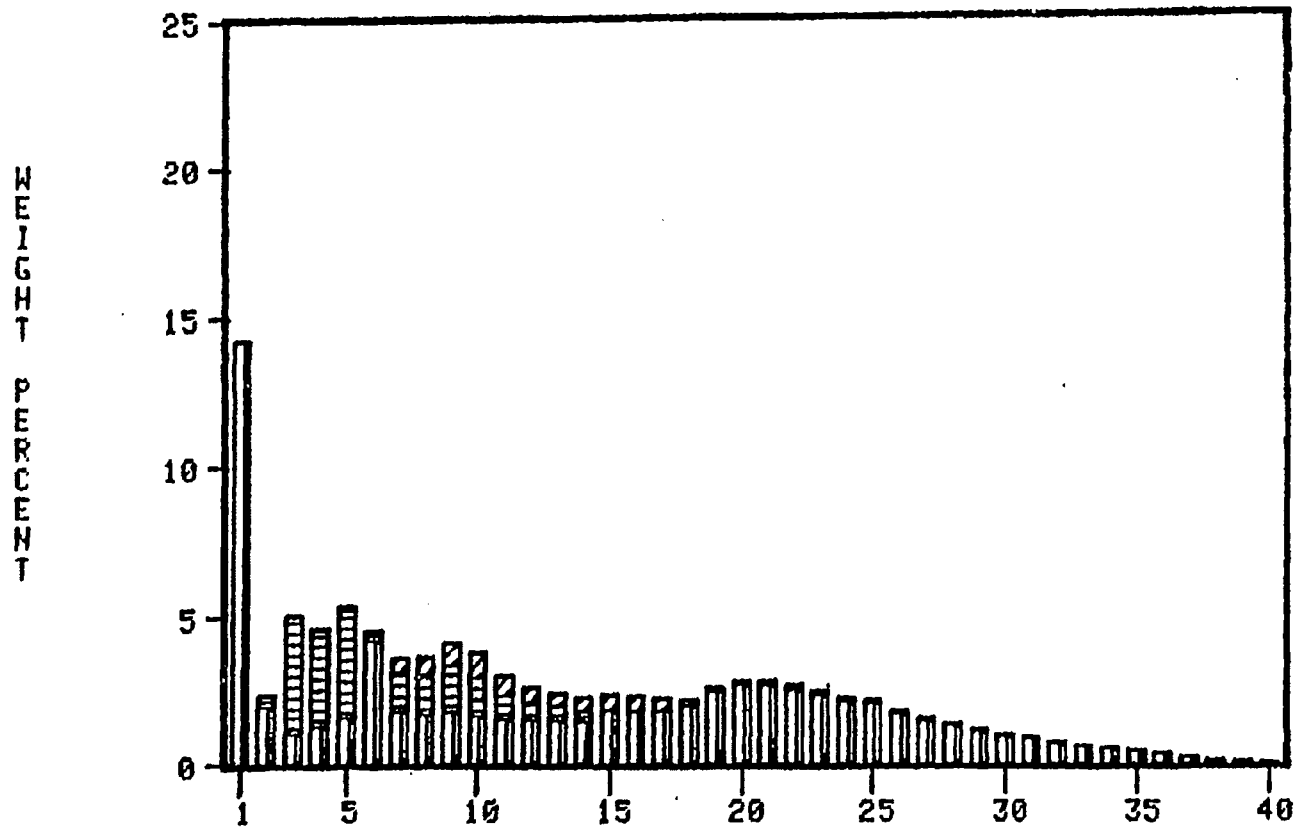


Figure 26

HYDROCARBON WEIGHT DISTRIBUTION

7888-33-731-39

CONTAINS POTENTIALLY
PRELIMINARY DATA
NOT FOR PUBLICATION



N-ALKANE
1-ALKENES
BRANCHED ISOMERS

249

250

Figure 27

HYDROCARBON WEIGHT DISTRIBUTION

7888-33-731-44

CONTAINS POTENTIALLY
PATENTABLE DATA -
NOT FOR PUBLICATION

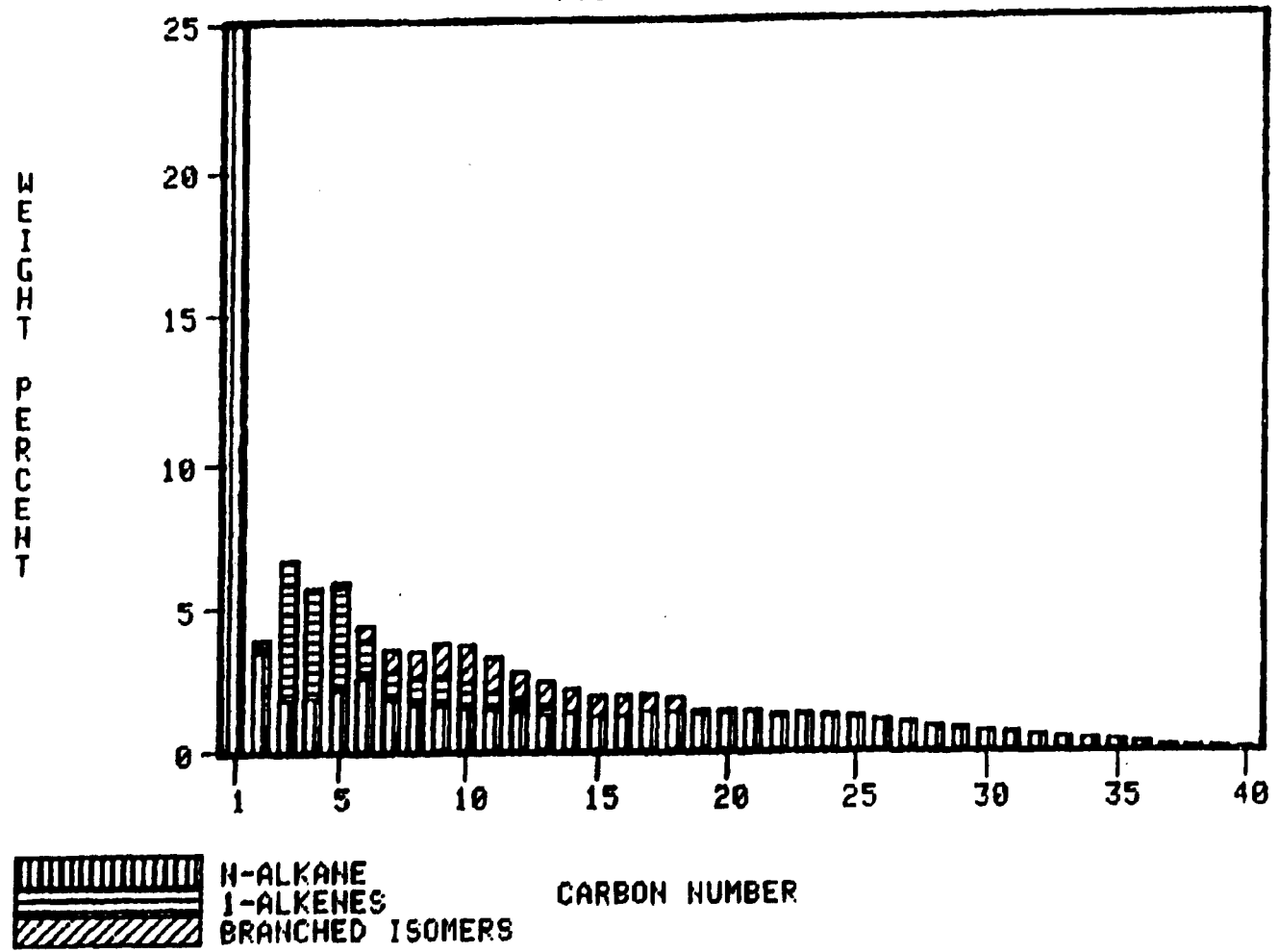


Figure 28

HYDROCARBON WEIGHT DISTRIBUTION

7888-33-731-47

CONTAINS COPYRIGHTED
PATENTABLE DATA
NOT FOR REPRODUCTION

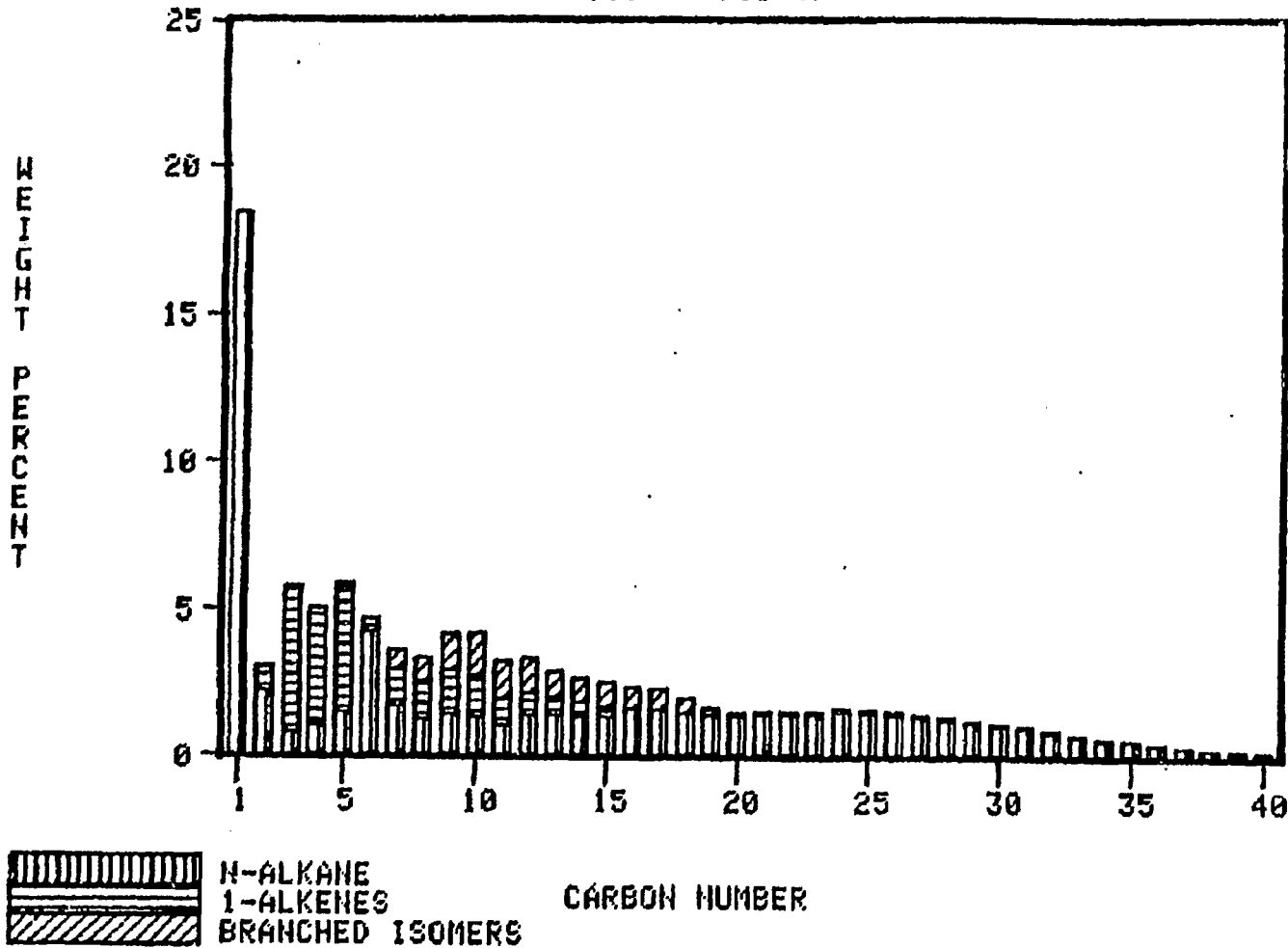


Figure 29

HYDROCARBON WEIGHT DISTRIBUTION

7888-33-731-52

CONTAINS POTENTIALLY
PATCHABLE DATA
NOT FOR PUBLICATION

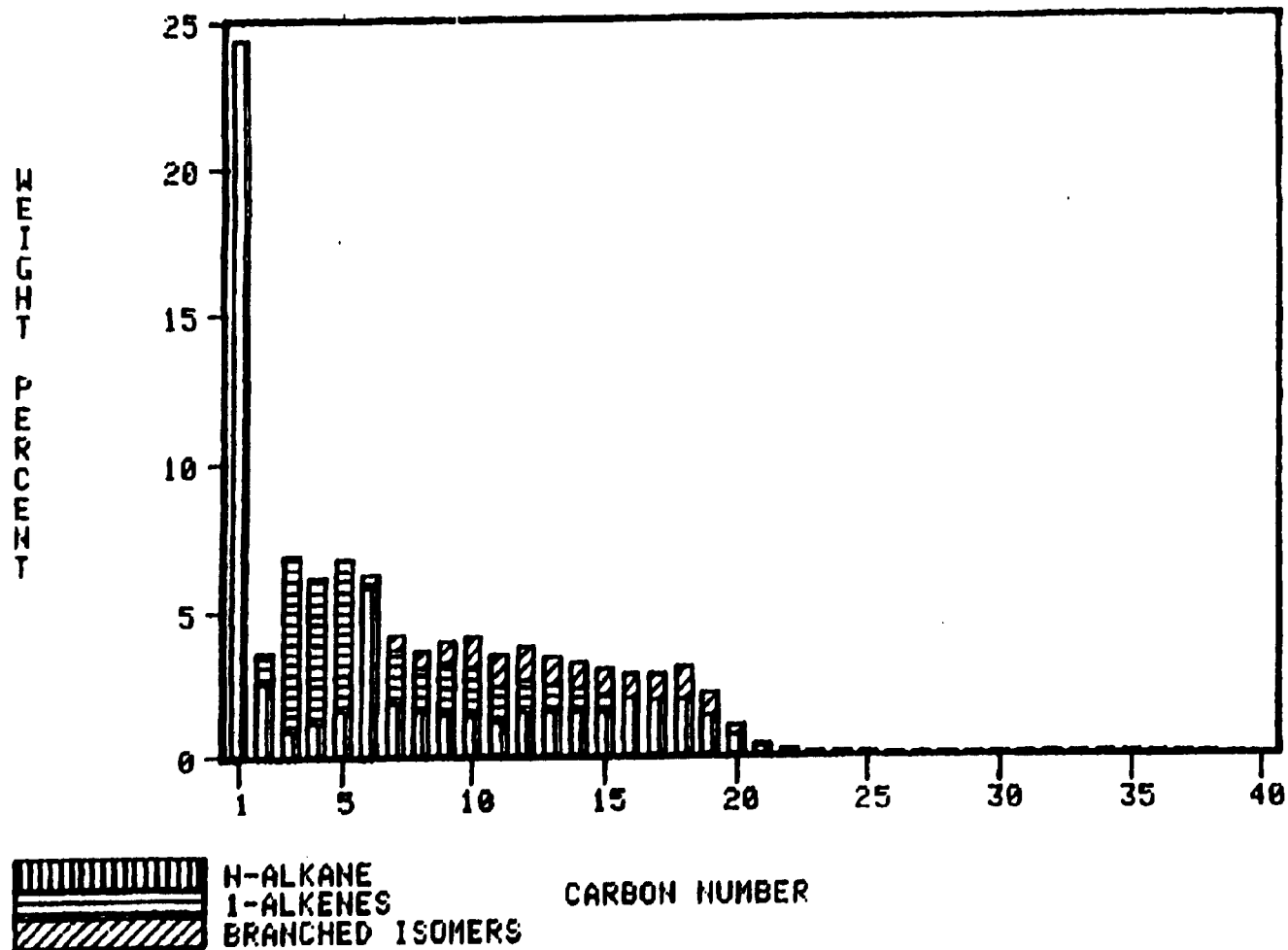
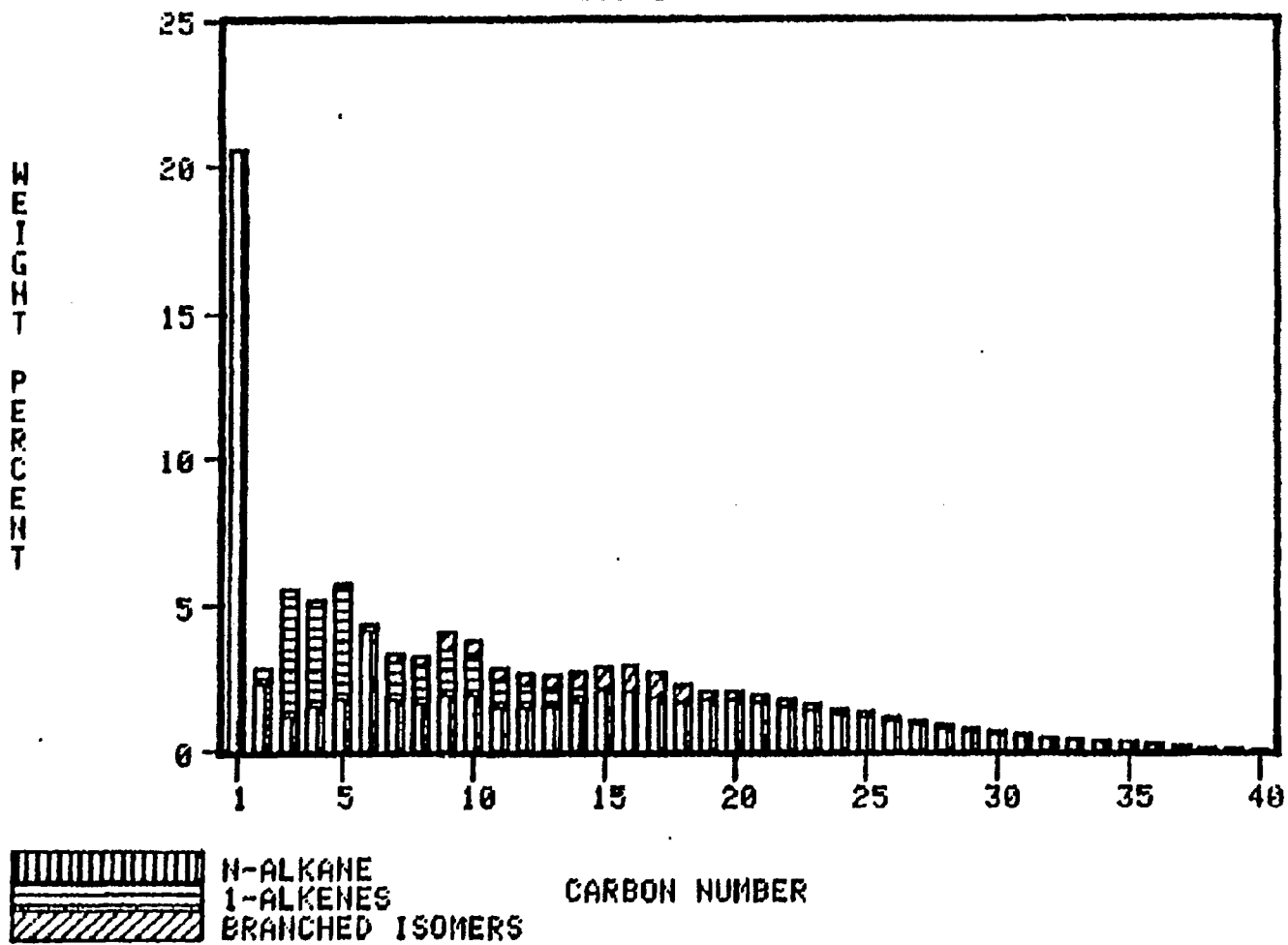


Figure 30

HYDROCARBON WEIGHT DISTRIBUTION
7888-33-731-65

CONTAINS 20% POLYMER
EVALUATED DATA
NOT FOR PUBLICATION



HYDROCARBON WEIGHT DISTRIBUTION

8385-60-707-3

CONCENTRATIONS POTENTIALLY
ESTIMATED DATA -
NOT FOR PUBLICATION

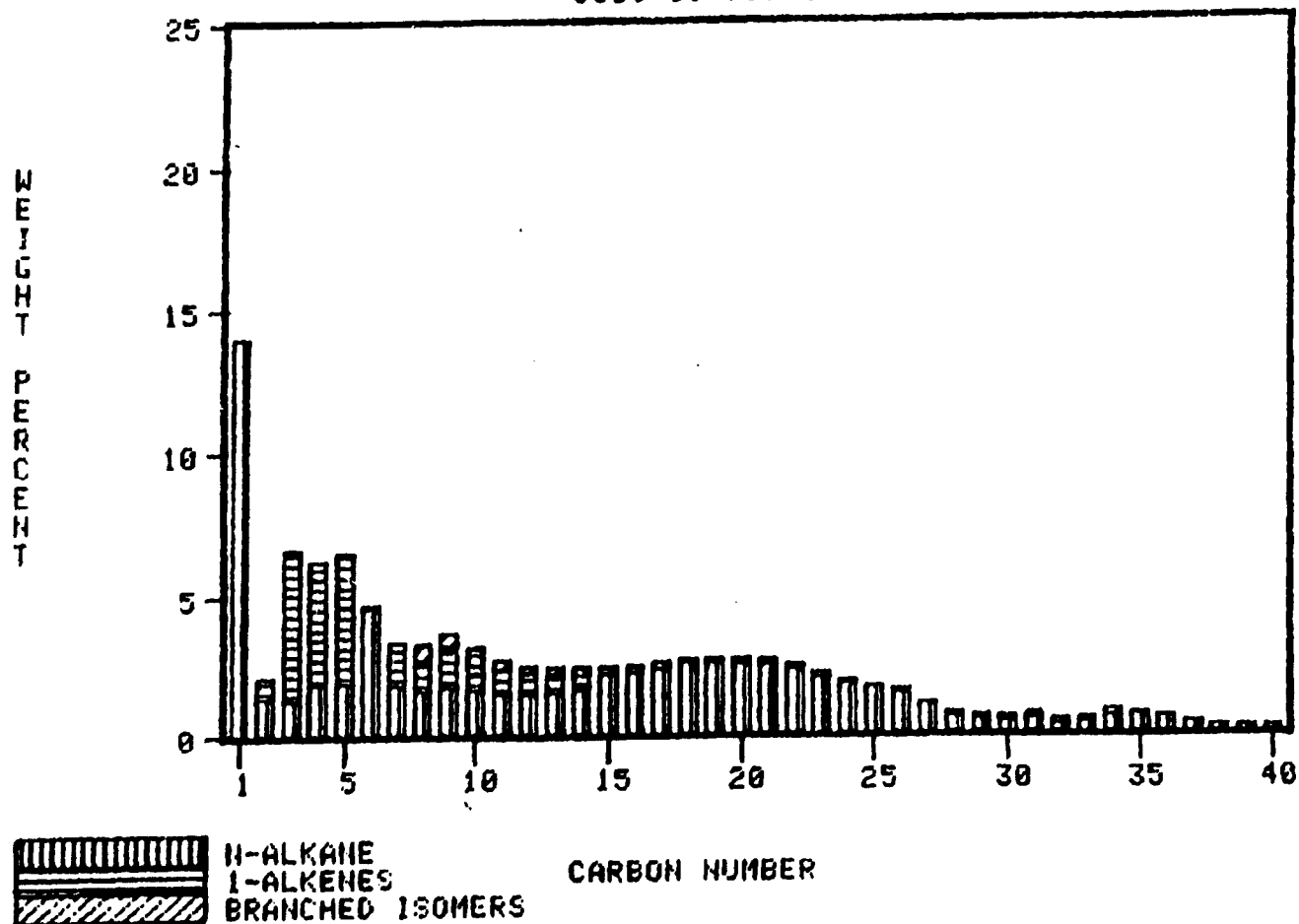


Figure 32

HYDROCARBON WEIGHT DISTRIBUTION

8385-60-707-6

CONTAINS POTENTIALLY
SENSITIVE DATA -
NOT FOR PUBLICATION

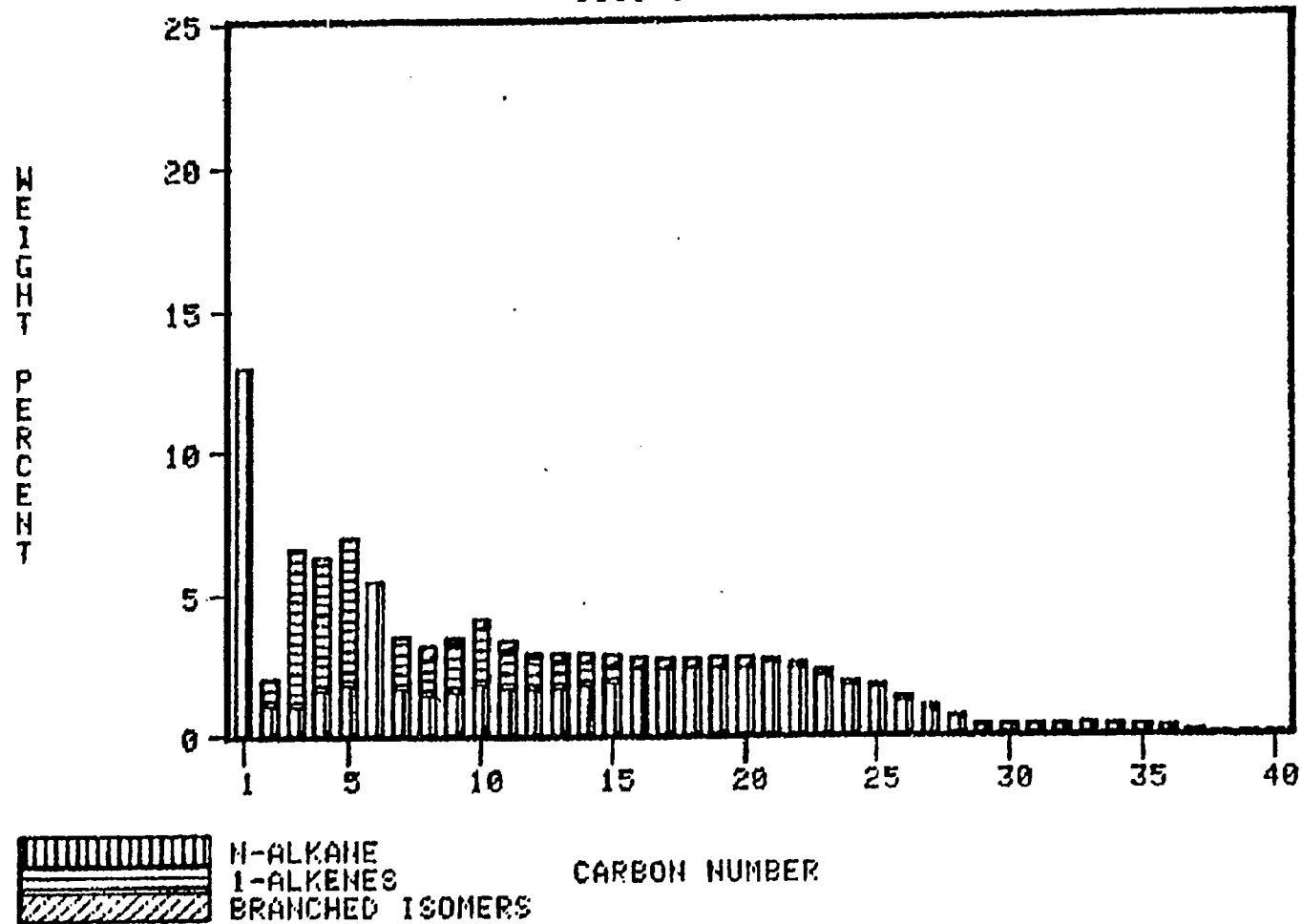
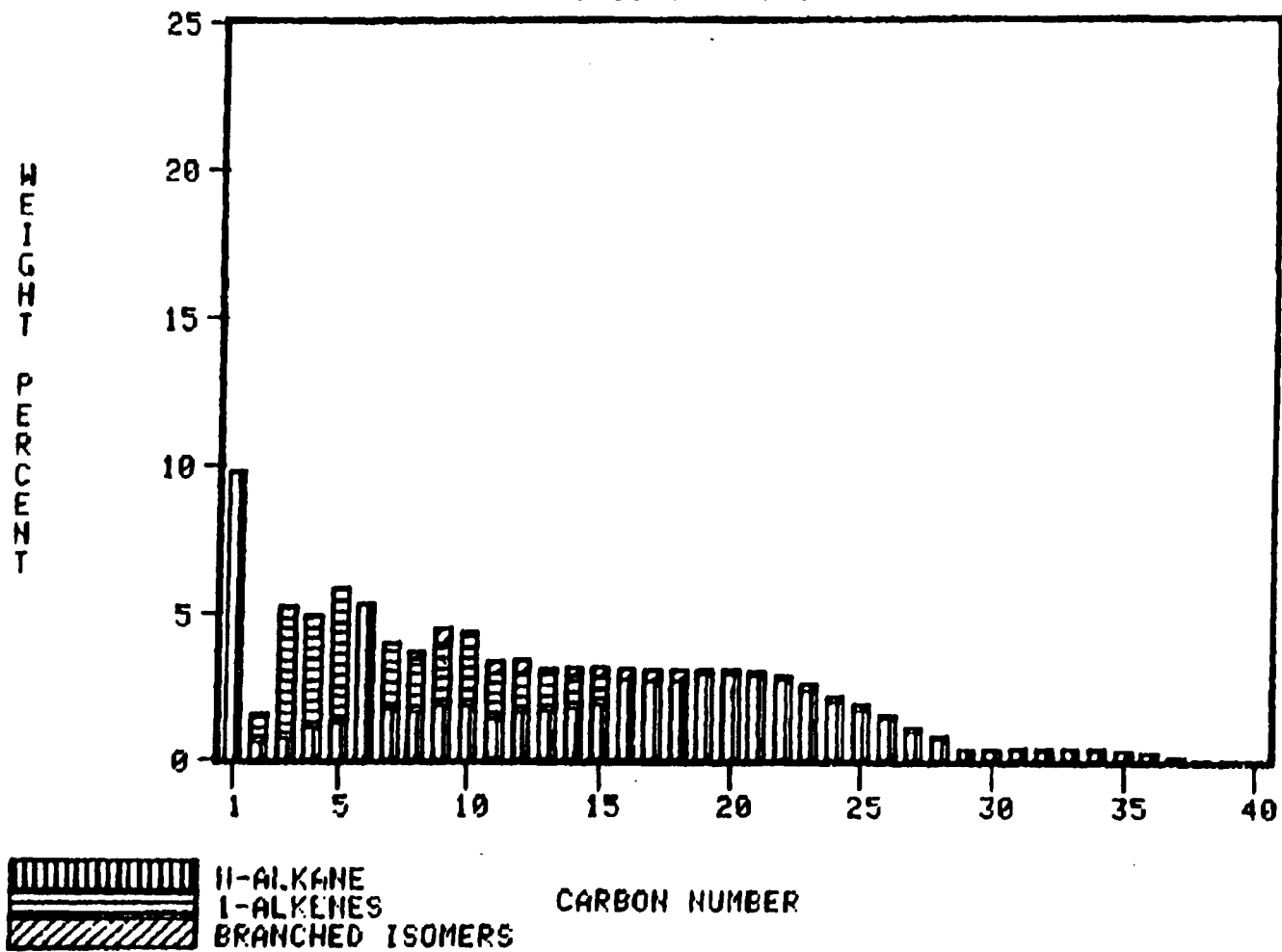


Figure 33

HYDROCARBON WEIGHT DISTRIBUTION

8385-60-707-0

CONFIDENTIAL
PATRIAL DATA
NOT FOR PUBLICATION



256

Figure 34

HYDROCARBON WEIGHT DISTRIBUTION

8385-60-707-10

CONTAINS POTENTIALLY
PATENTABLE DATA.
NOT FOR PUBLICATION

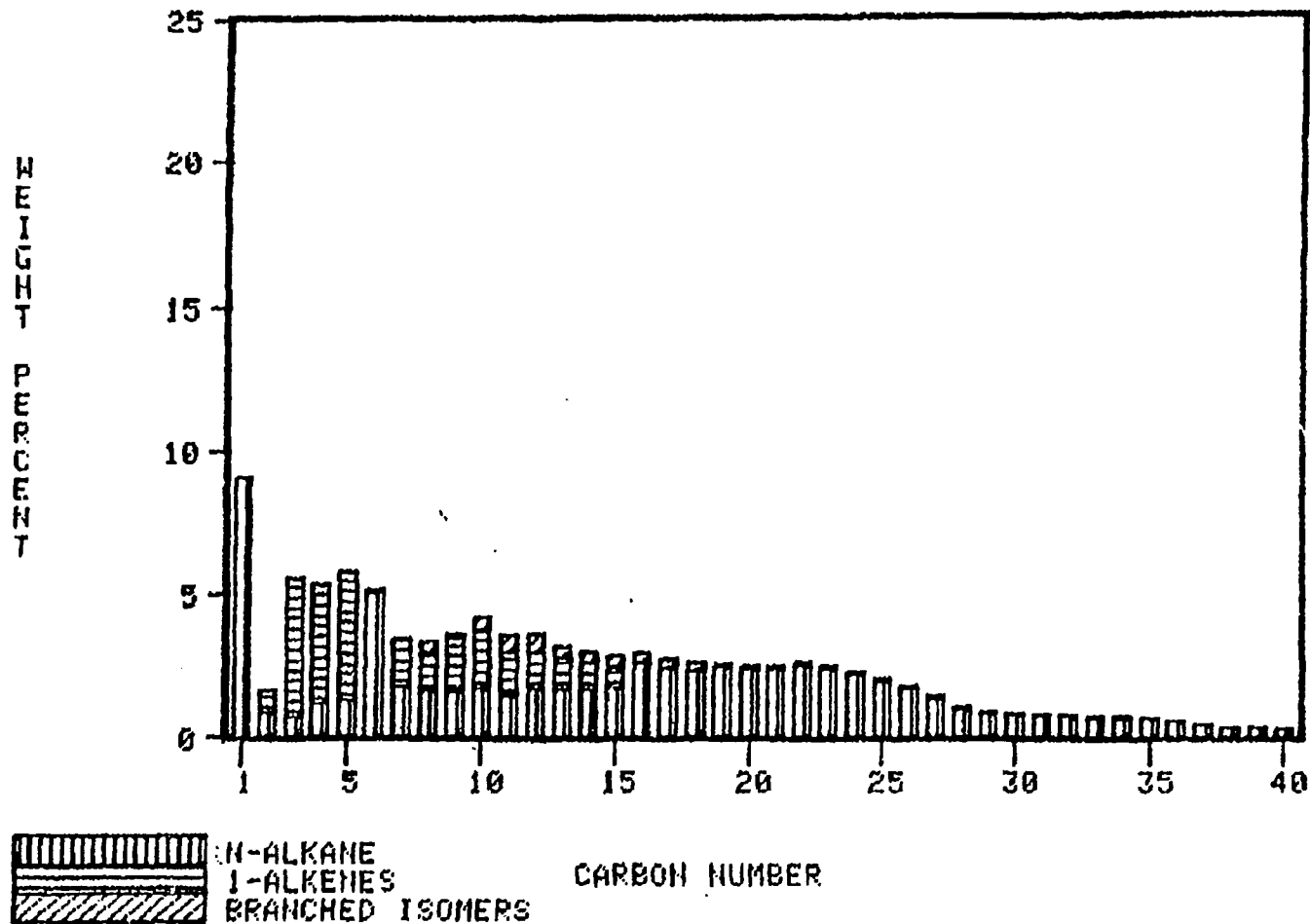
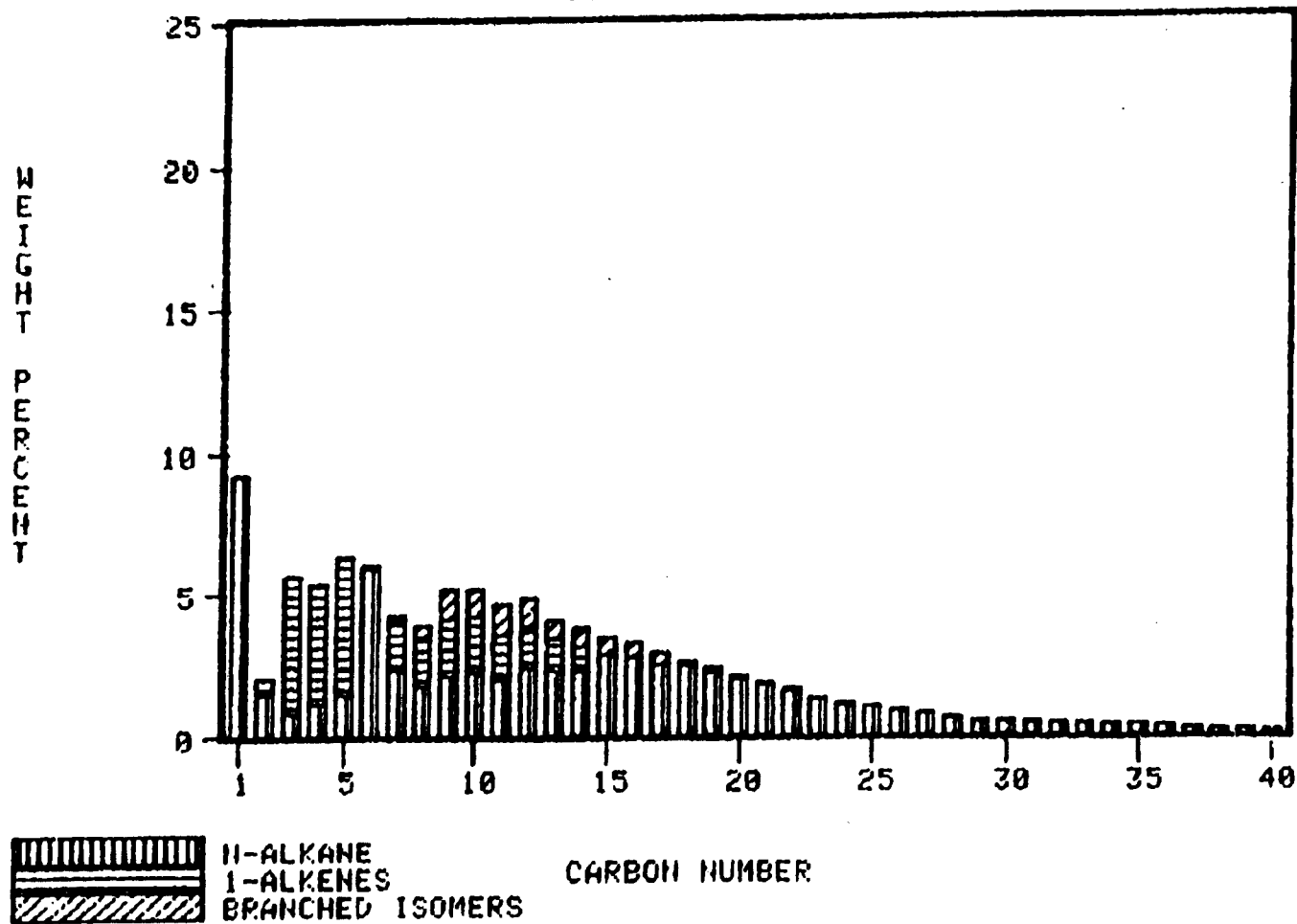


Figure 35

HYDROCARBON WEIGHT DISTRIBUTION

8385-60-707-11

CONTAINS POTENTIALLY
PATENTABLE DATA -
NOT FOR PUBLICATION



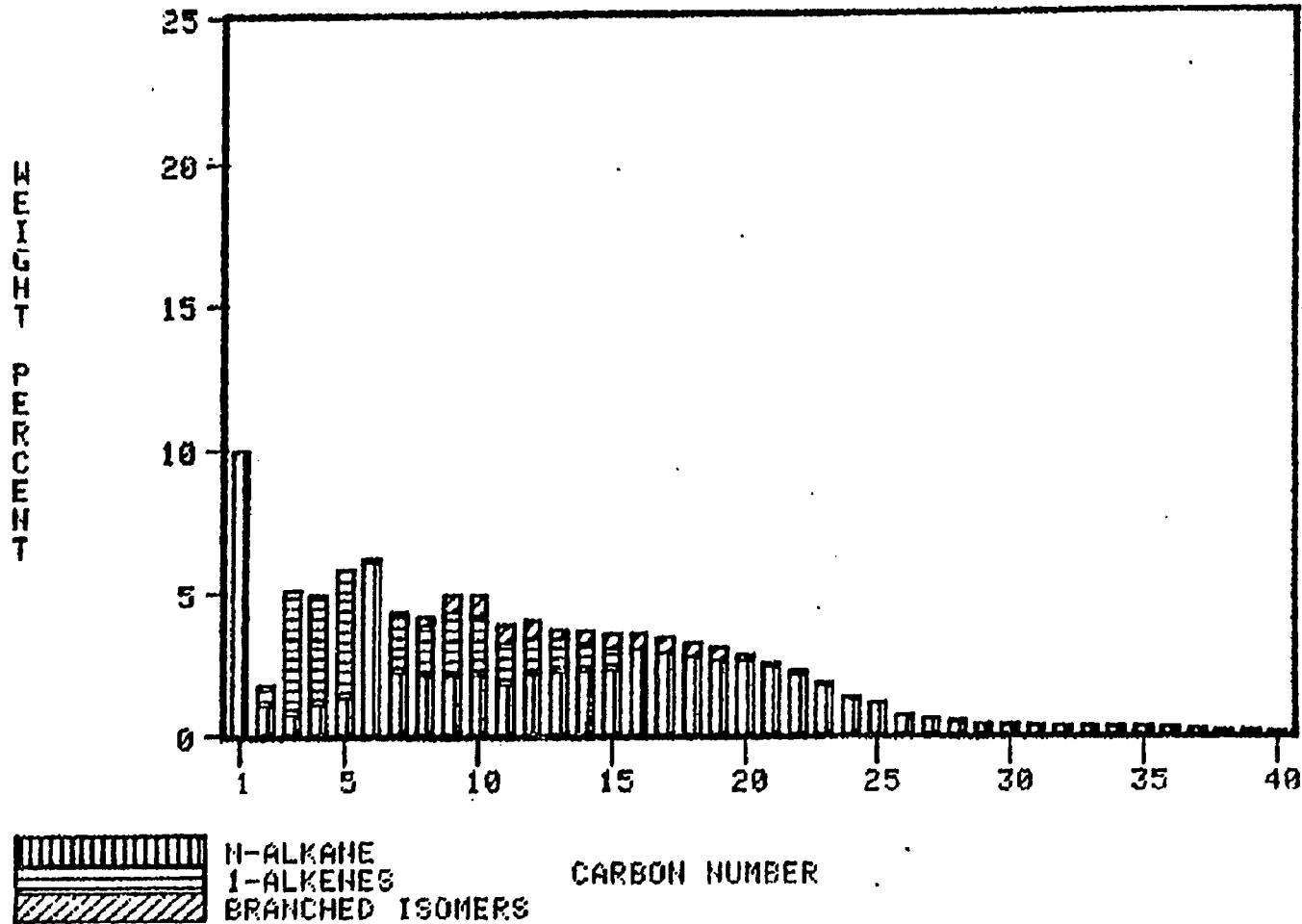
25R

Figure 36

CONTAINS POTENTIALLY
PATENTABLE DATA -
NOT FOR PUBLICATION

HYDROCARBON WEIGHT DISTRIBUTION

8385-60-707-12



259

Figure 37

HYDROCARBON WEIGHT DISTRIBUTION
8385-60-707-15

CONTAINS POTENTIALLY
PATENTABLE DATA -
NOT FOR PUBLICATION

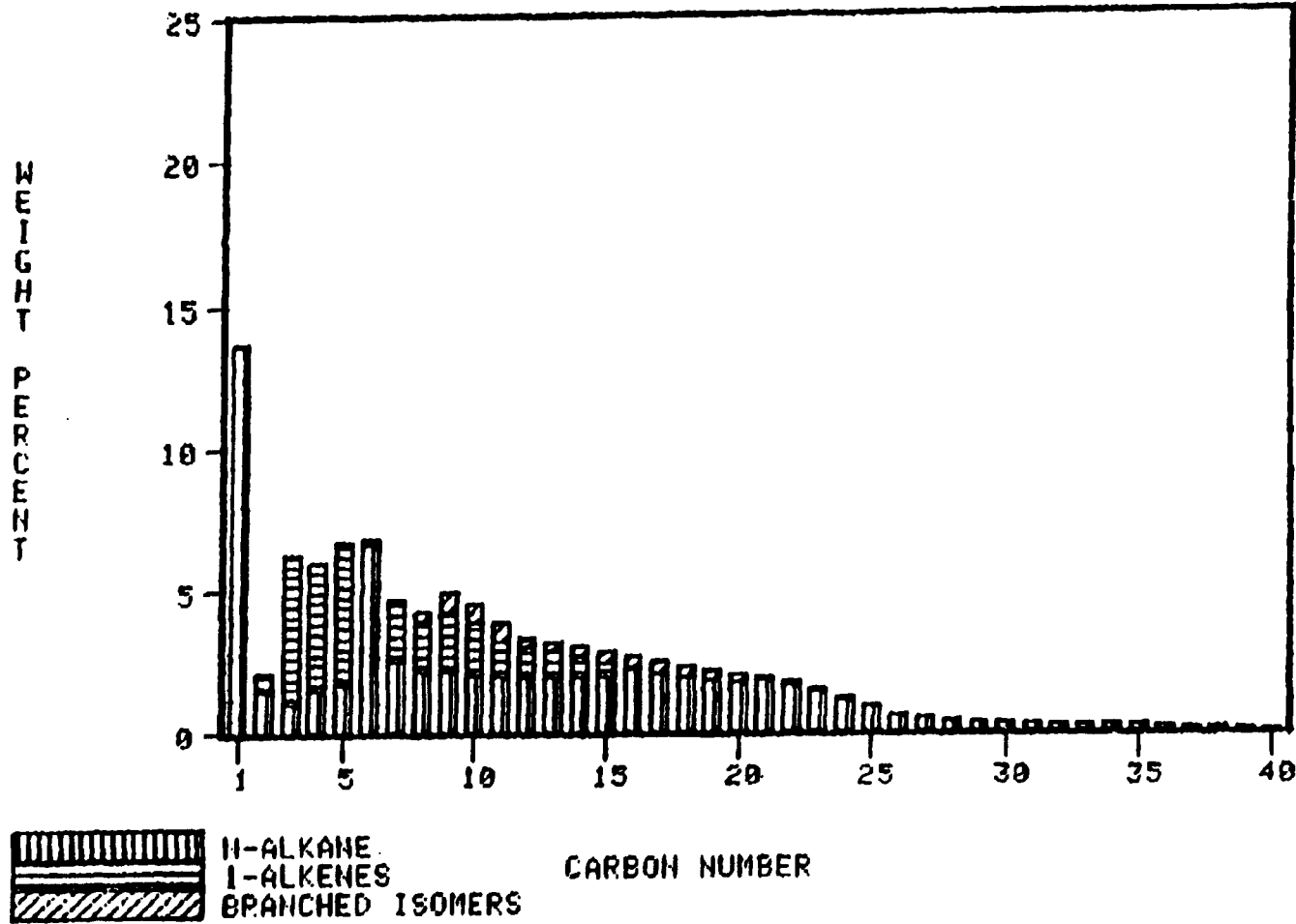


Figure 38

HYDROCARBON WEIGHT DISTRIBUTION

8385-60-707-17

CONTAINS POTENTIALLY
PATENTABLE DATA
NOT FOR PUBLICATION

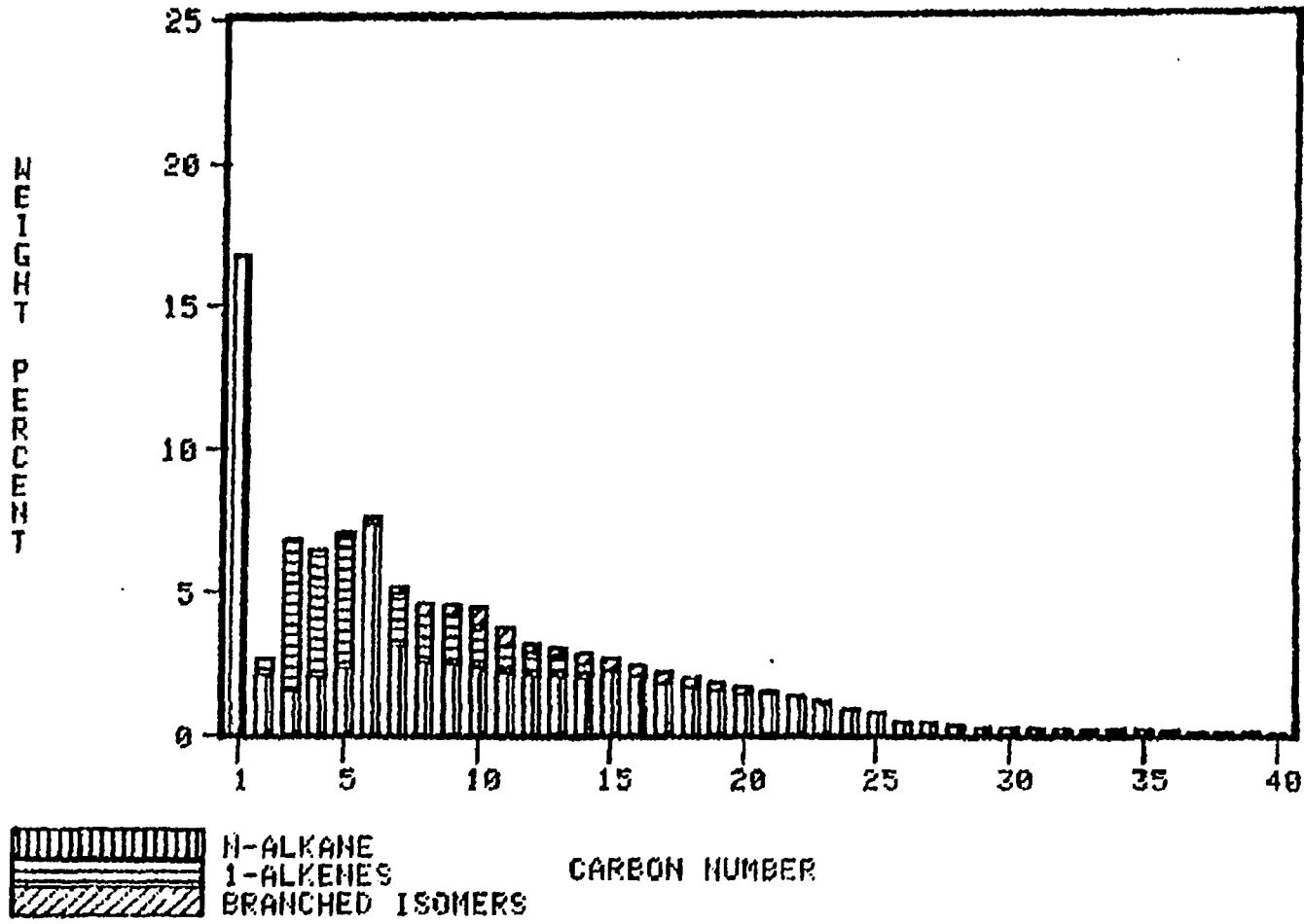


Figure 39

CONTAINS POTENTIALLY
PATENTABLE DATA -
NOT FOR PUBLICATION

HYDROCARBON WEIGHT DISTRIBUTION

8385-60-707-20

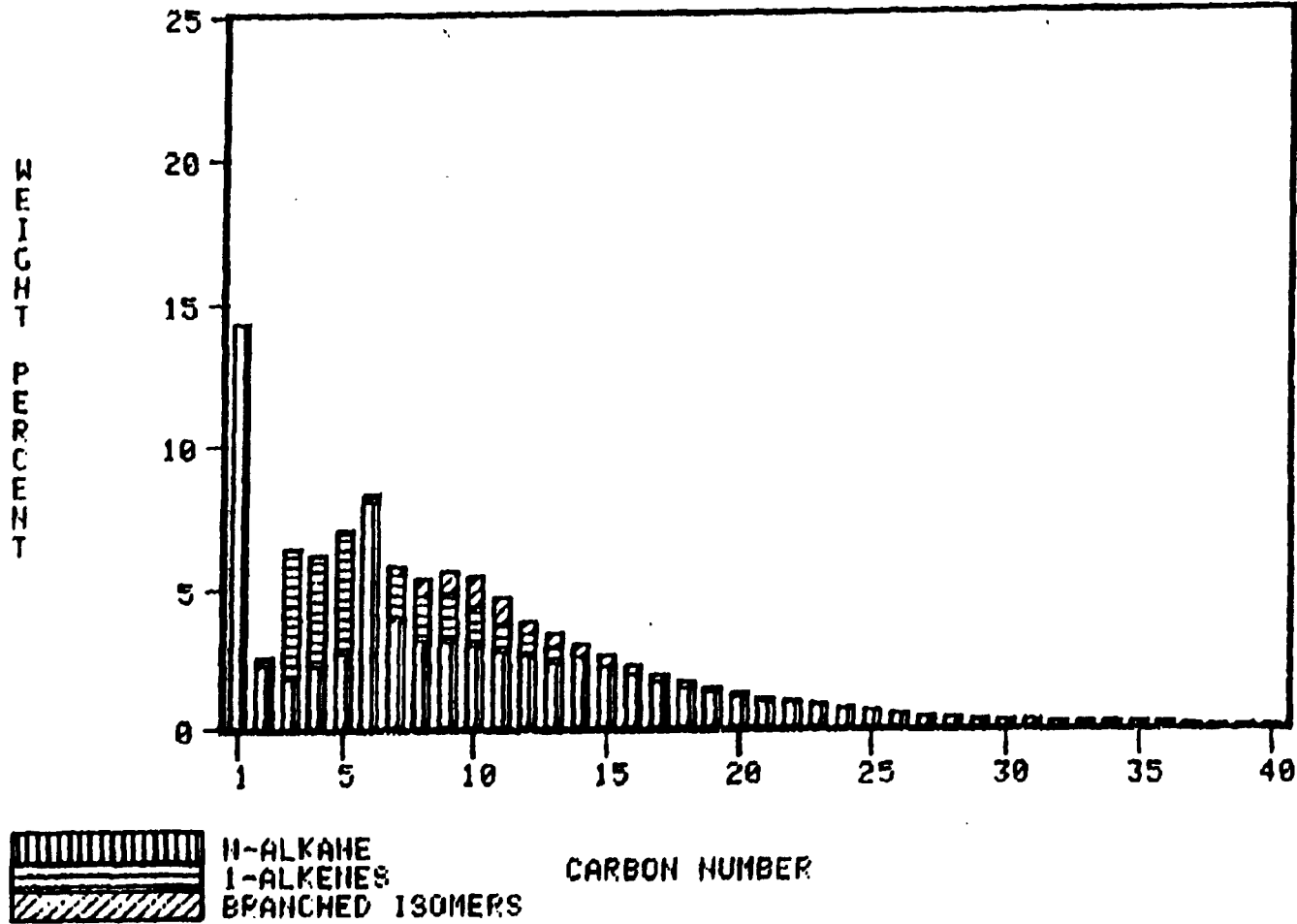


Figure 40

HYDROCARBON WEIGHT DISTRIBUTION

8385-69-707-22

CONTAINS POTENTIALLY
PATENTABLE DATA -
NOT FOR PUBLICATION

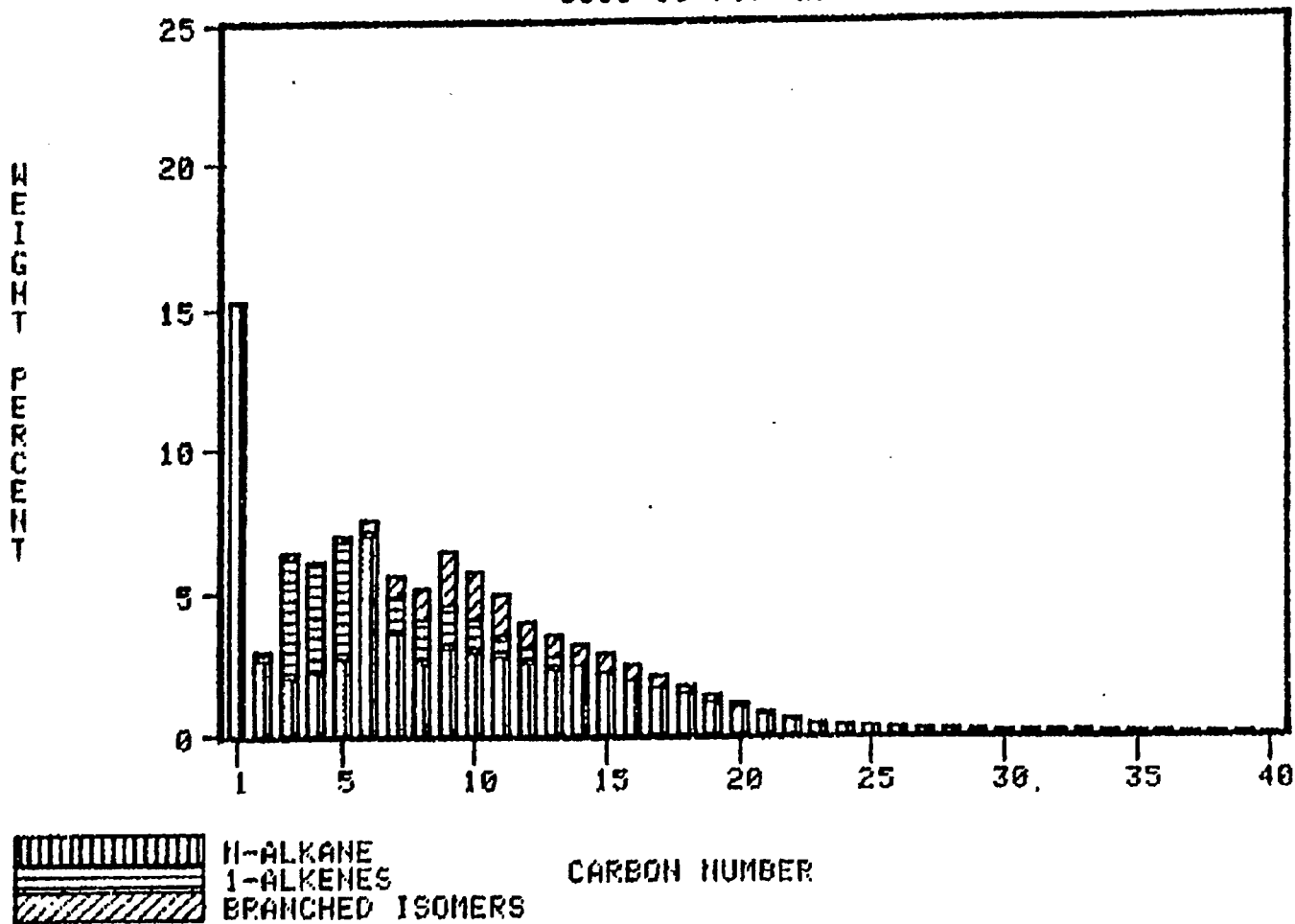


Figure 41

CONTAINS POTENTIALLY
PATENTABLE DATA -
NOT FOR PUBLICATION

HYDROCARBON WEIGHT DISTRIBUTION

8385-60-707-24

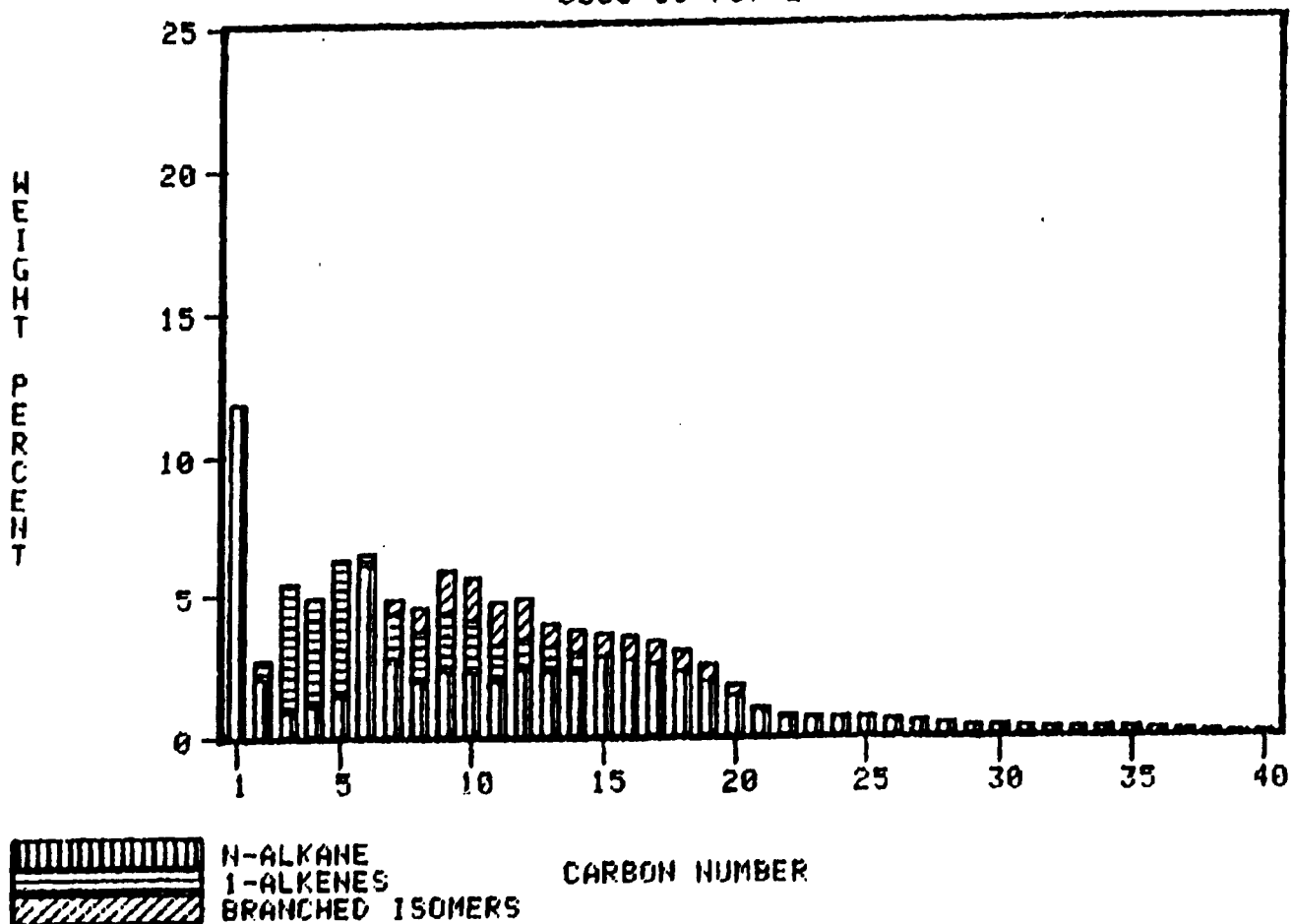


Figure 42

HYDROCARBON WEIGHT DISTRIBUTION

0365-60-707-27

CONTAINS POTENTIALLY
PATENTABLE DATA -
NOT FOR PUBLICATION

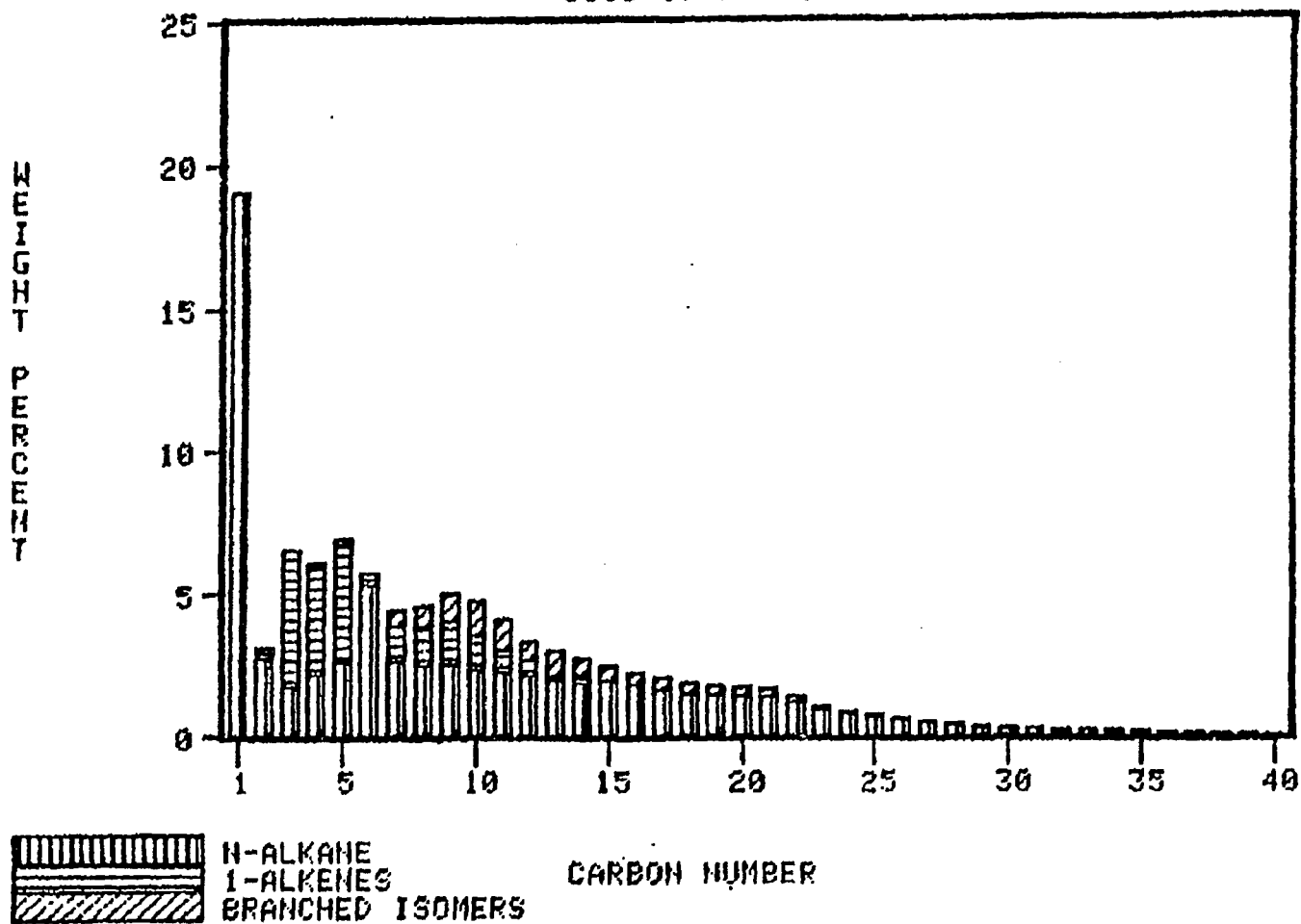


Figure 43

CONTAINS POTENTIALLY
PATENTABLE DATA.
NOT FOR PUBLICATION

HYDROCARBON WEIGHT DISTRIBUTION

8385-60-707-29

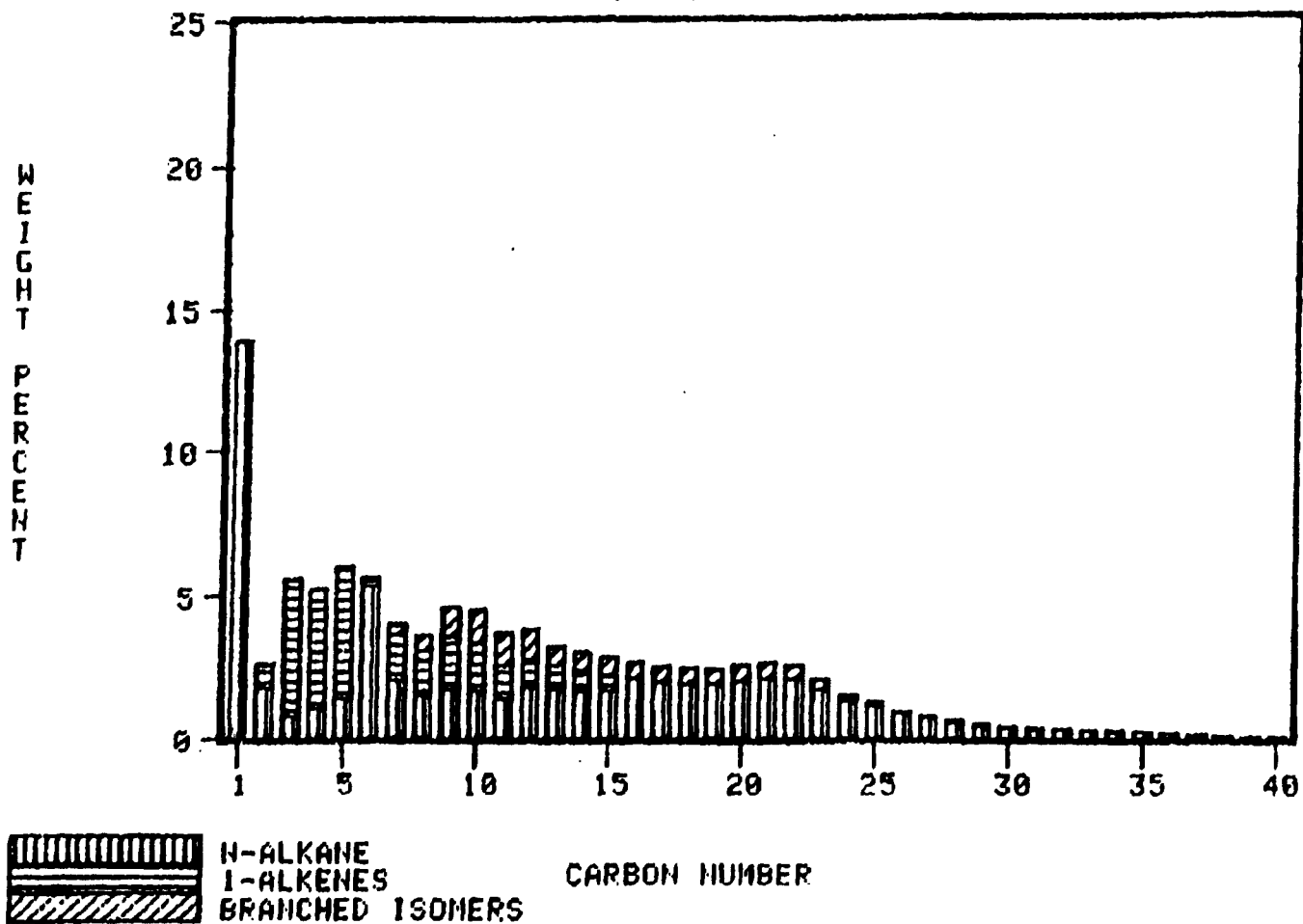


Figure 44
HYDROCARBON WEIGHT DISTRIBUTION
8385-60-787-33

CONTAINS ESSENTIALLY
PATENTABLE MATTER
NOT FOR PUBLICATION

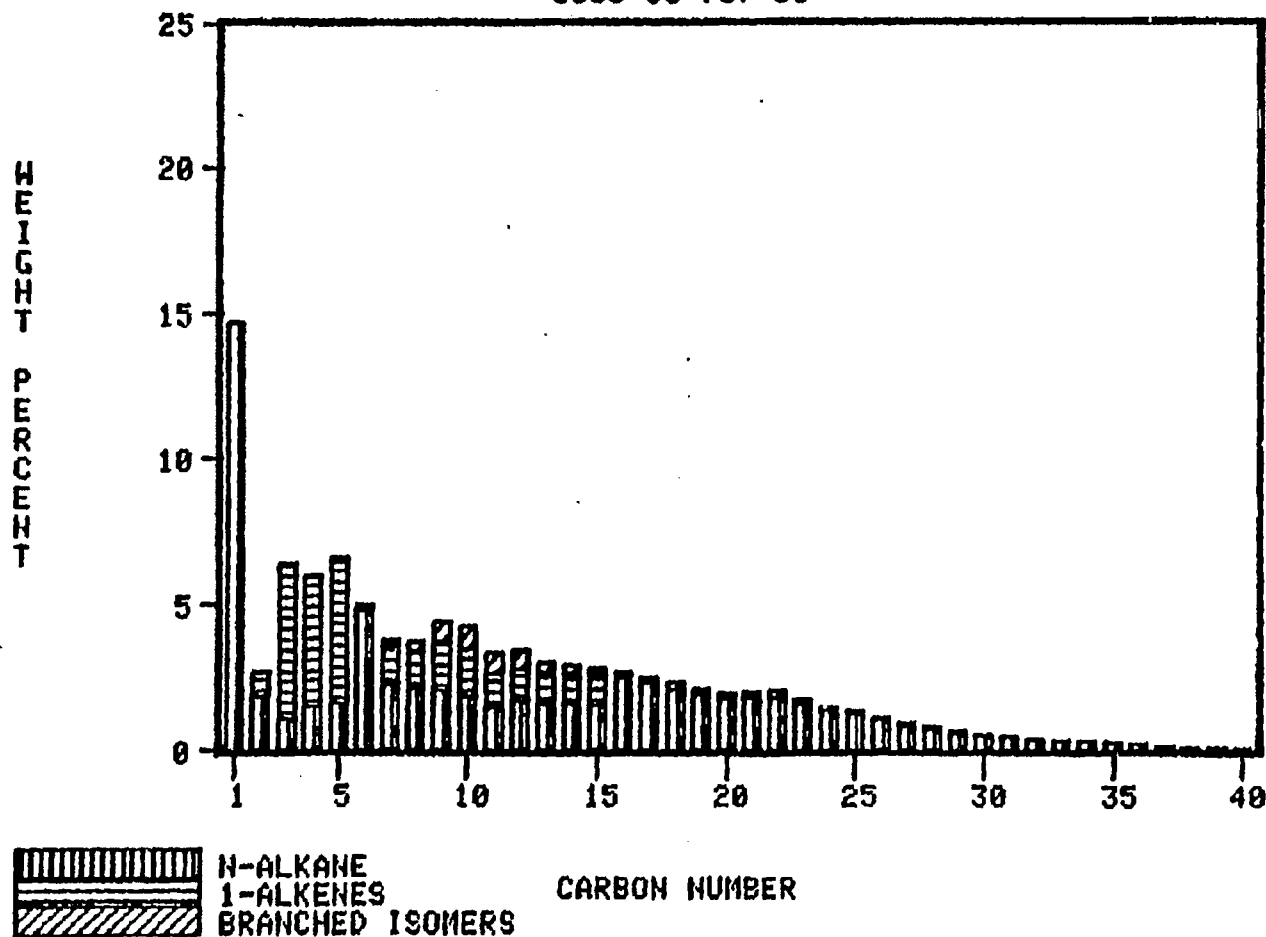


Figure 45

CONTAINS POTENTIALLY
PATENTABLE DATA -
NOT FOR PUBLICATION

HYDROCARBON WEIGHT DISTRIBUTION

8385-60-707-36

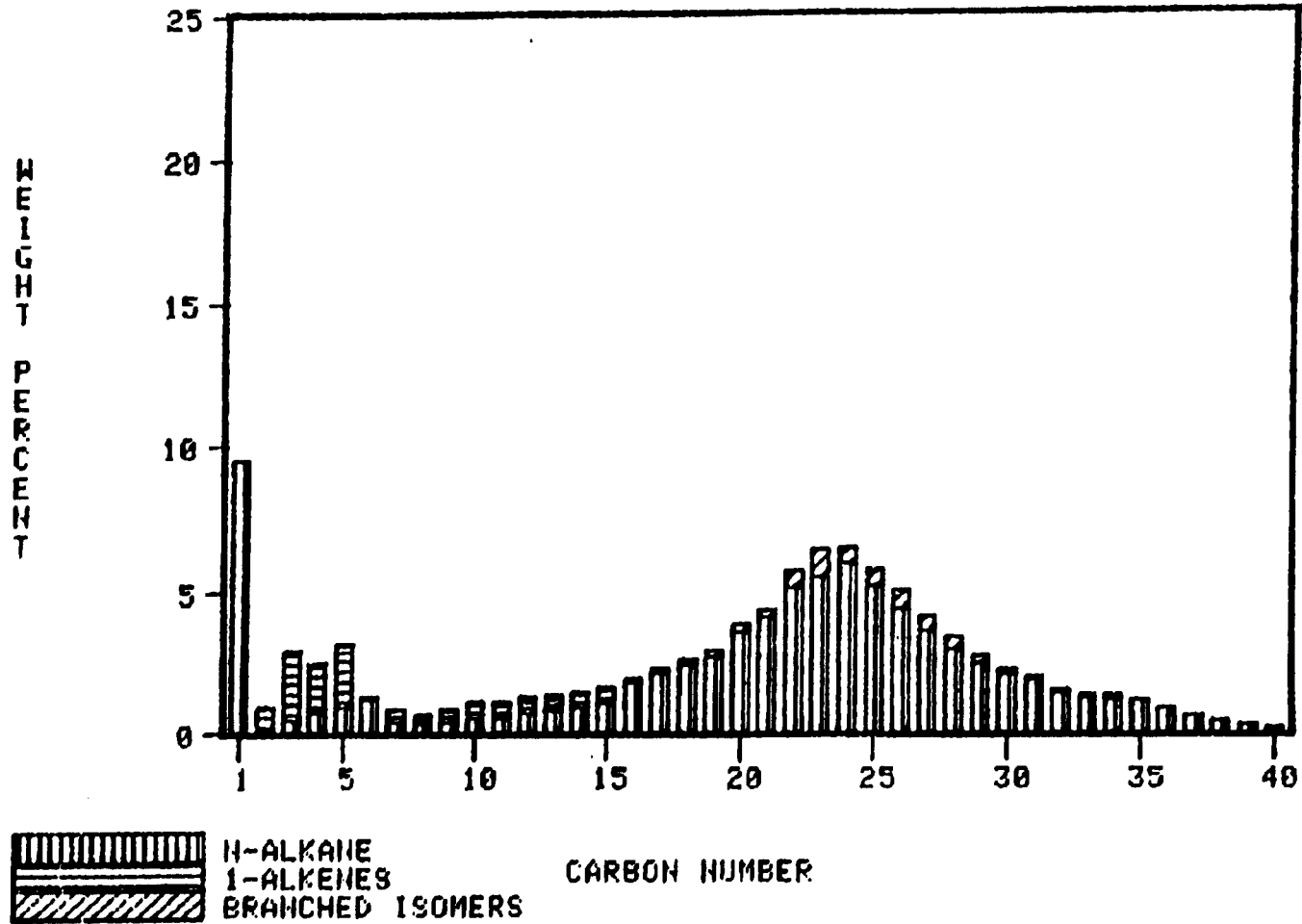


Figure 46

HYDROCARBON WEIGHT DISTRIBUTION
8523-1-4-2

CONTAINS POTENTIALLY
PATENTABLE INFO.
SEE FOR PUBLICATION

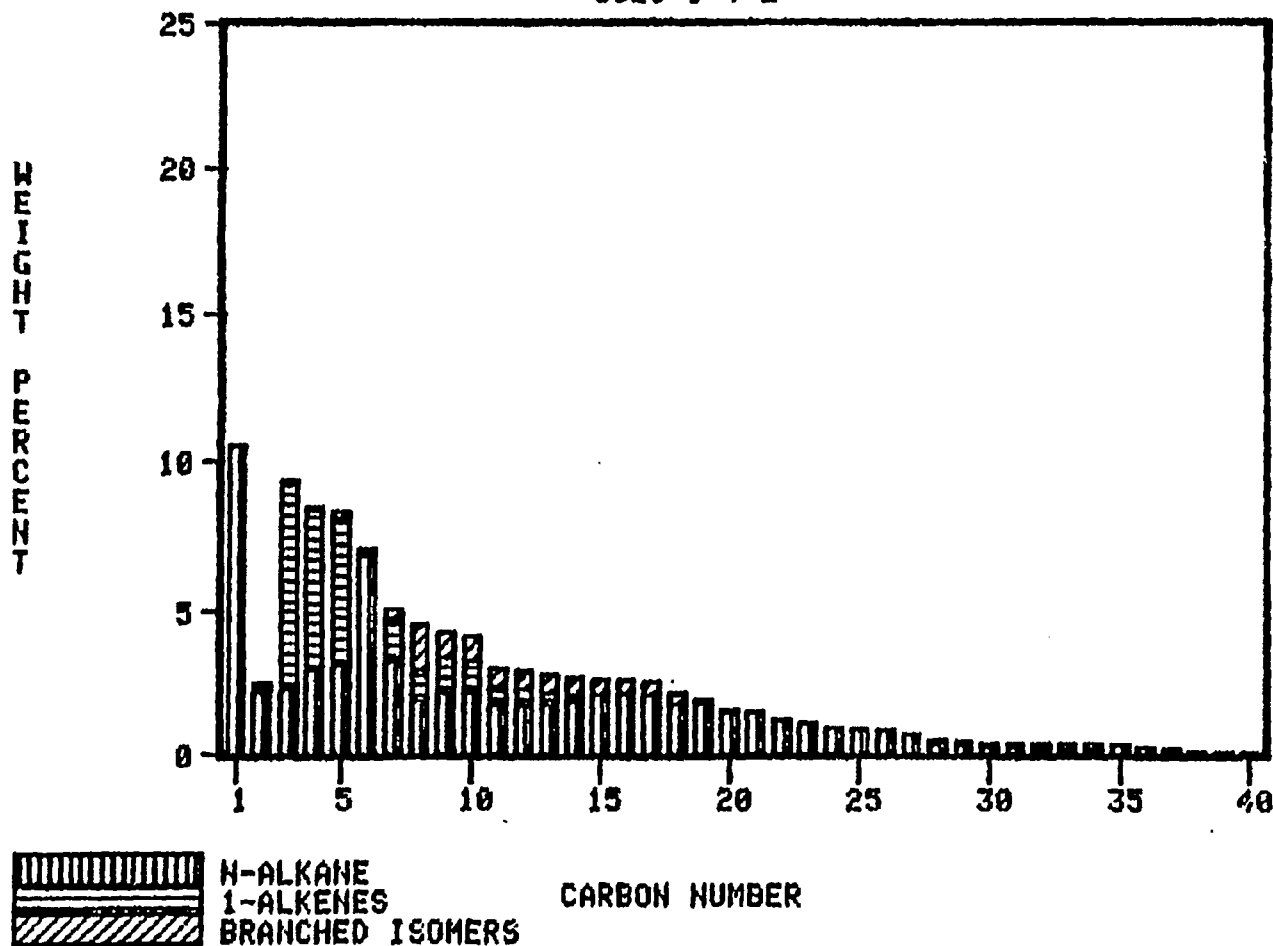


Figure 47

HYDROCARBON WEIGHT DISTRIBUTION 8523-1-4-4

CONTAINS POTENTIALLY
PATENTABLE DATA -
NOT FOR PUBLICATION

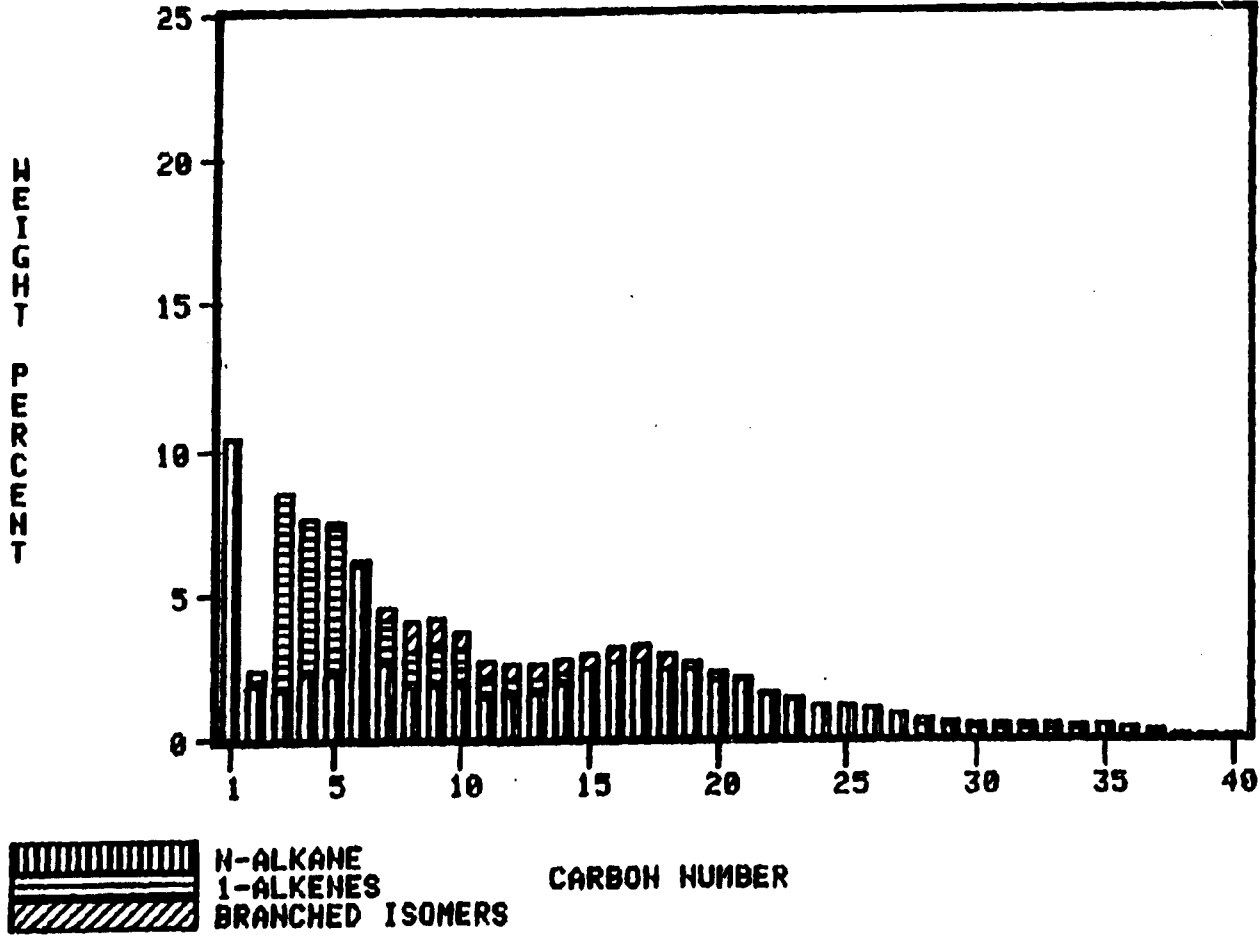


Figure 4B

HYDROCARBON WEIGHT DISTRIBUTION

8523-1-4-7

CONTAINS POTENTIALLY
PATENTABLE DATA -
NOT FOR PUBLICATION

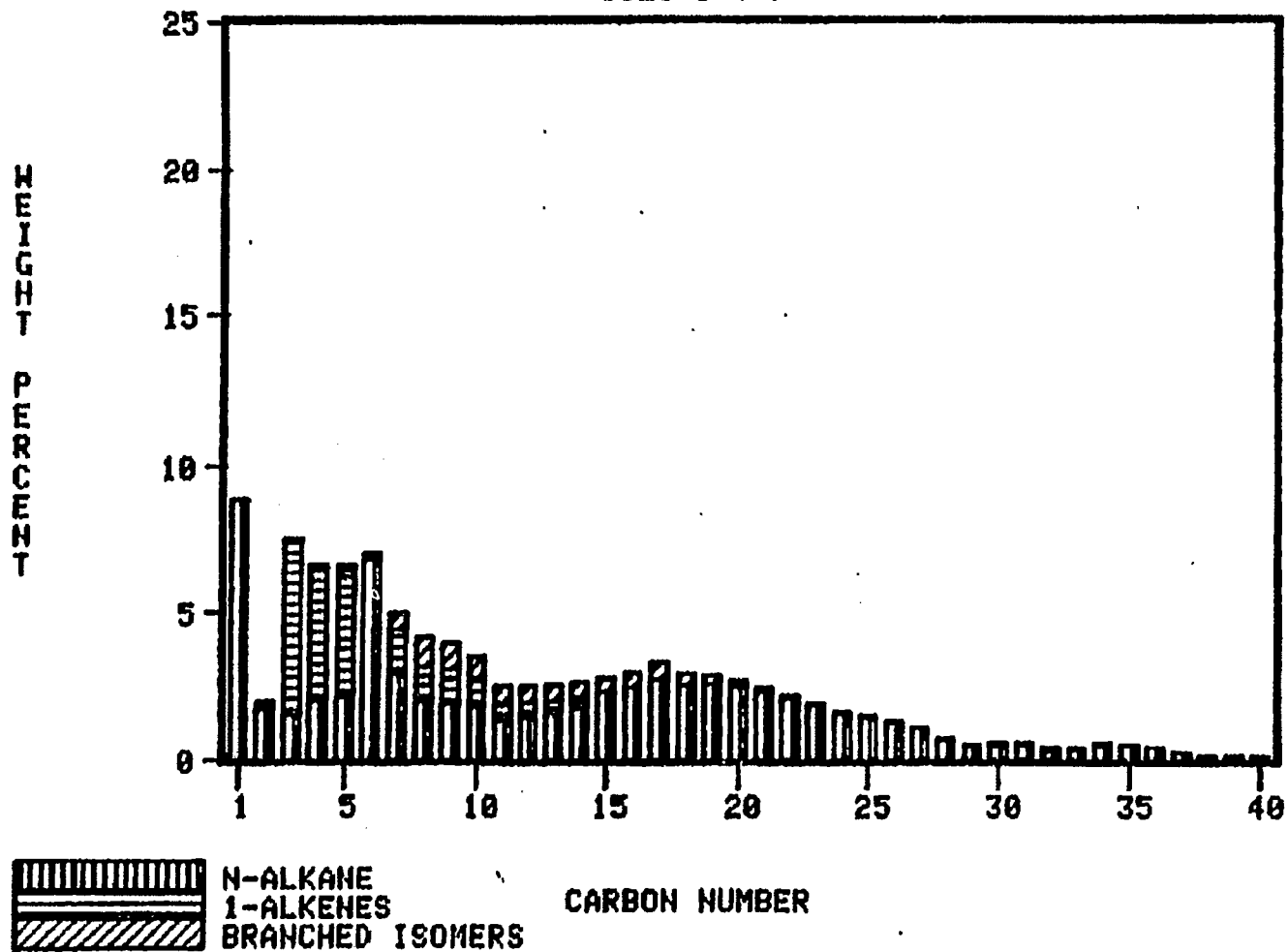


Figure 49
HYDROCARBON WEIGHT DISTRIBUTION
8523-1-4-10

CONTAINS POTENTIALLY
PATCHABLE DATA -
NOT FOR PUBLICATION

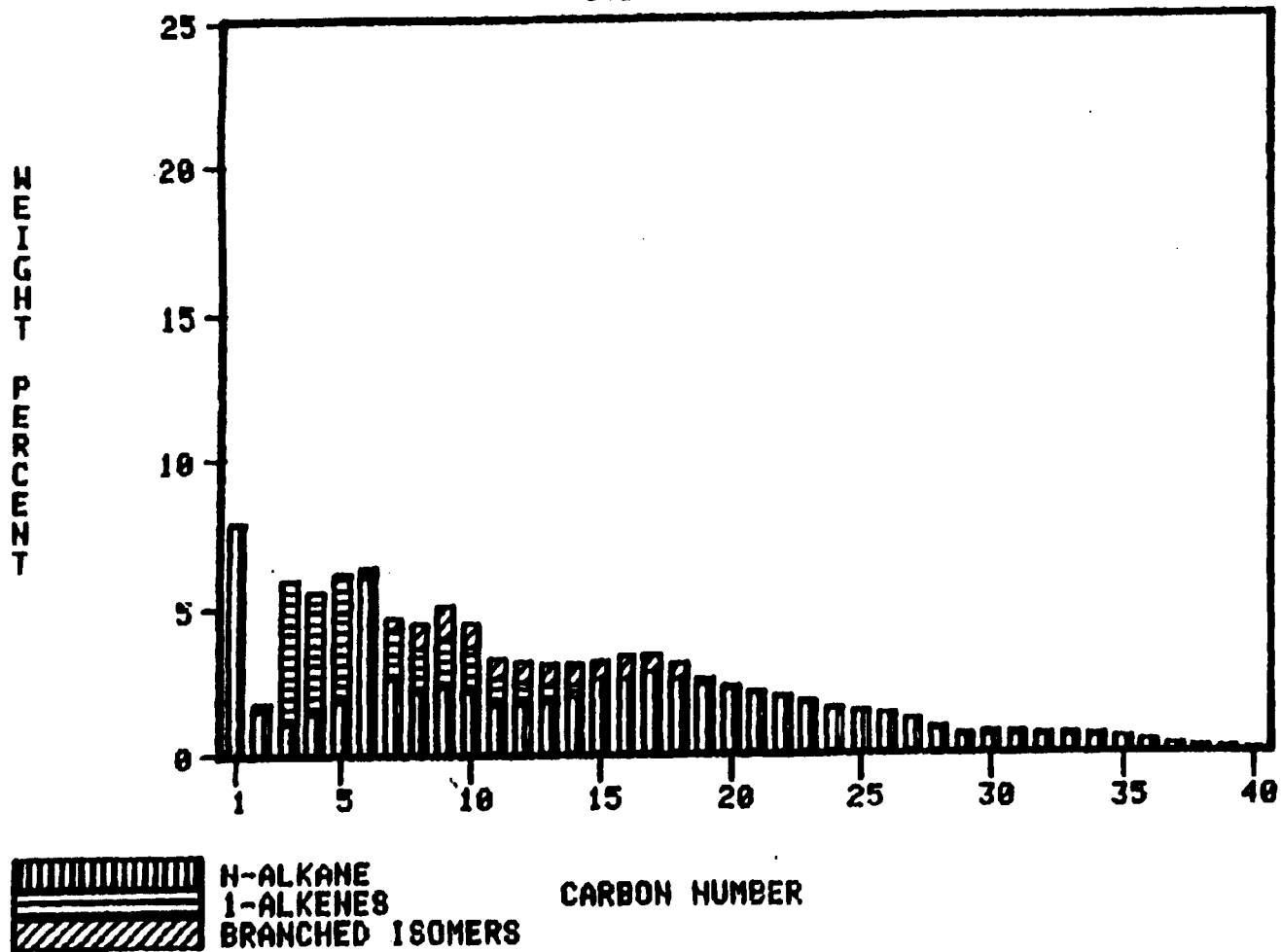


Figure 50

HYDROCARBON WEIGHT DISTRIBUTION

0523-1-4-13

CONTAINS POTENTIALLY
PATENTABLE DATA -
NOT FOR PUBLICATION

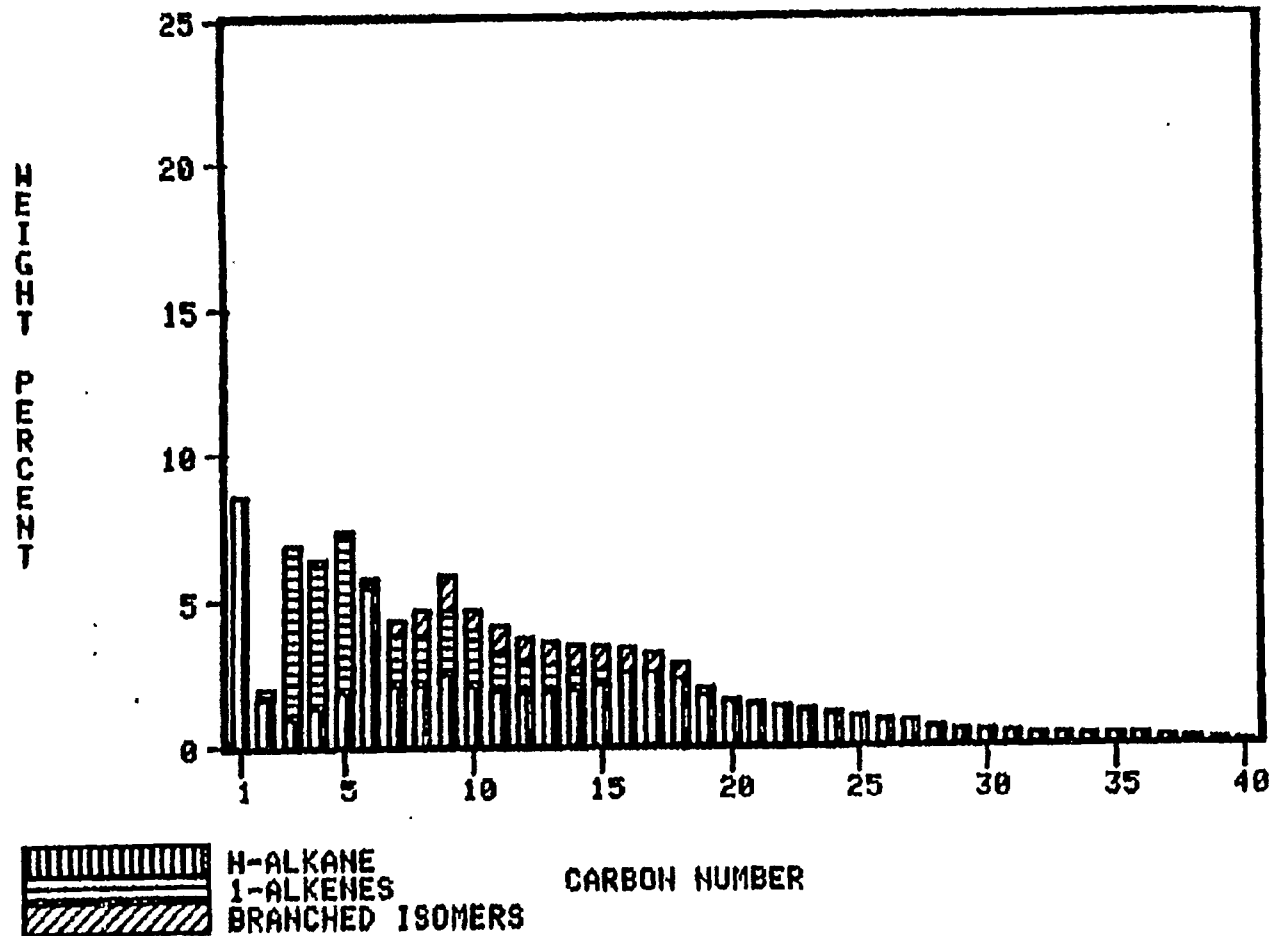


Figure 51

HYDROCARBON WEIGHT DISTRIBUTION

8523-1-4-17

CONTAINS POTENTIALLY
PATENTABLE DATA -
NOT FOR PUBLICATION

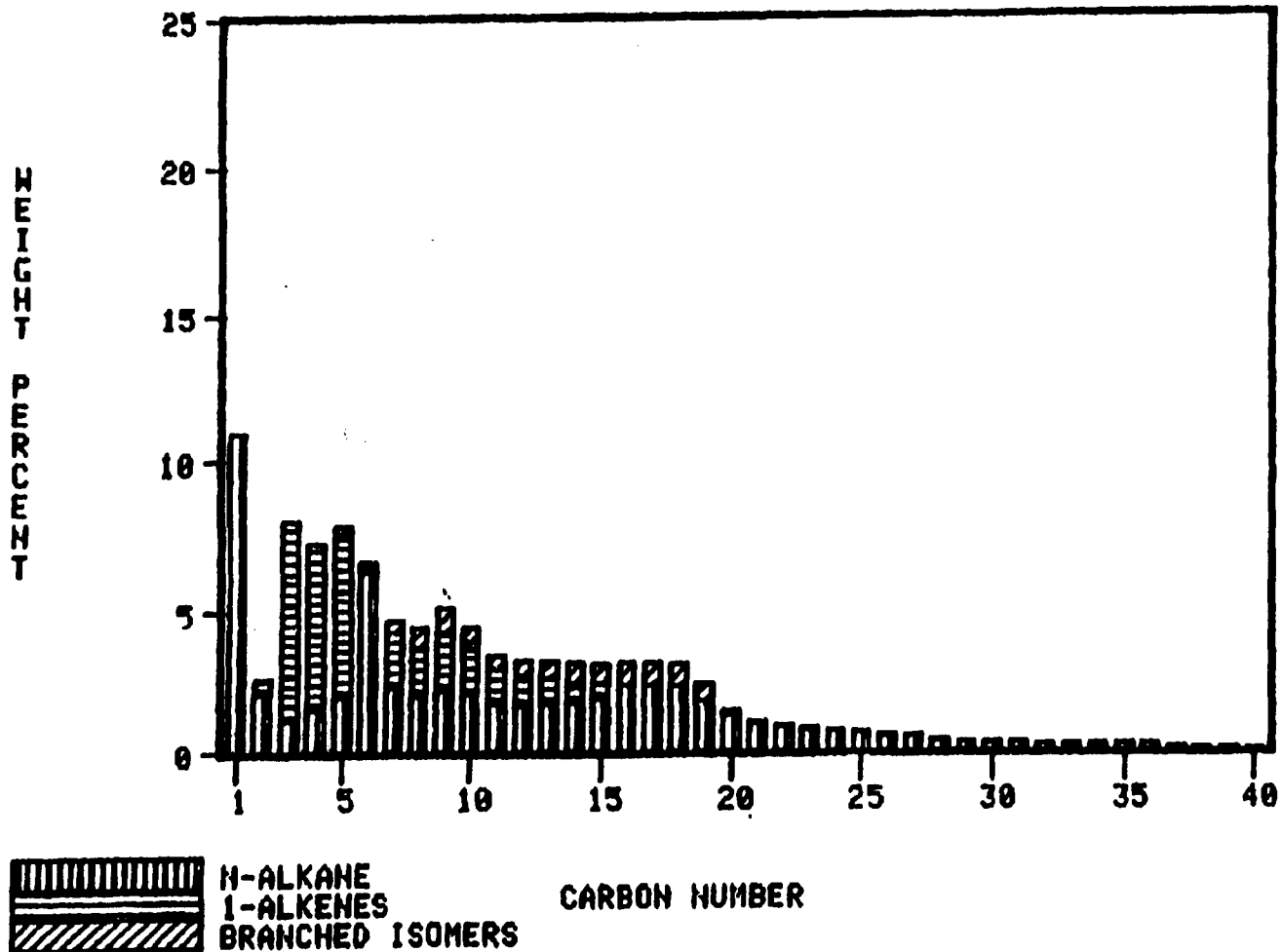


Figure 52

HYDROCARBON WEIGHT DISTRIBUTION
8523-1-4-20

CONTAINS POTENTIALLY
PATENTABLE INFORMATION
NOT FOR PUBLICATION

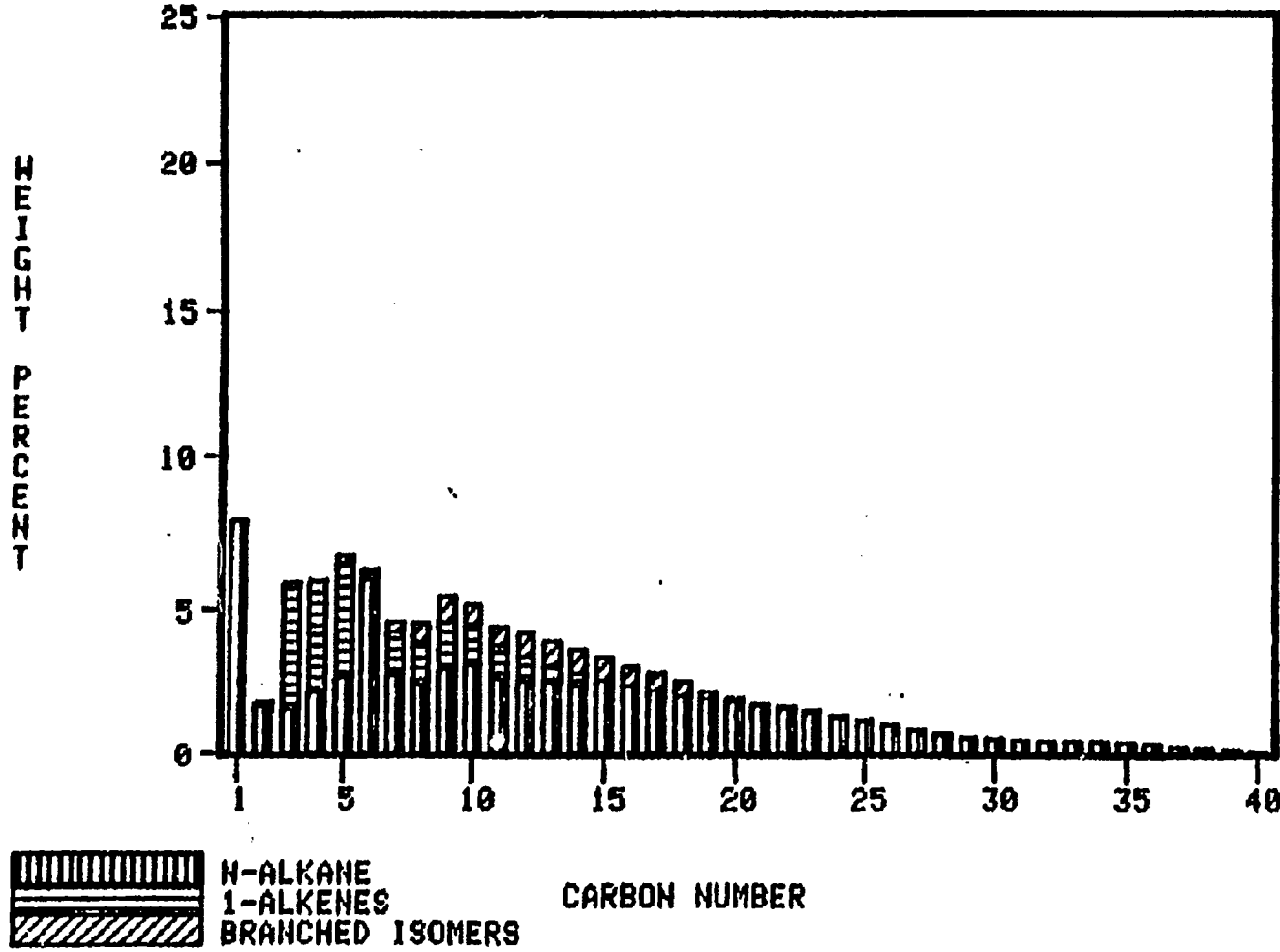
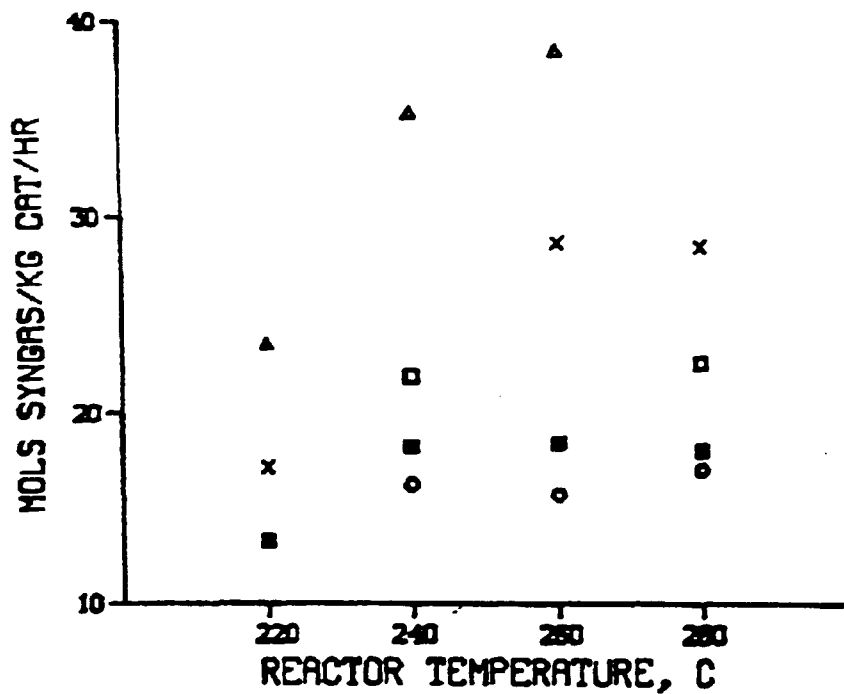


Figure 53

CONTAINS POTENTIALLY
PATENTABLE DATA -
NOT FOR PUBLICATION

BULK ACTIVITY VS. REACTOR TEMPERATURE



▲ CO/H₂ - 1.0, GHSV - 300 1/HR

× 1.5, 300

◻ 2.0, 300

◼ 1.5, 150

◦ 2.0, 150

Figure 54

HYDROCARBON WEIGHT DISTRIBUTION

8523-1-4-25

CONTAINS POTENTIALLY
PATENTABLE DATA
NOT FOR PUBLICATION

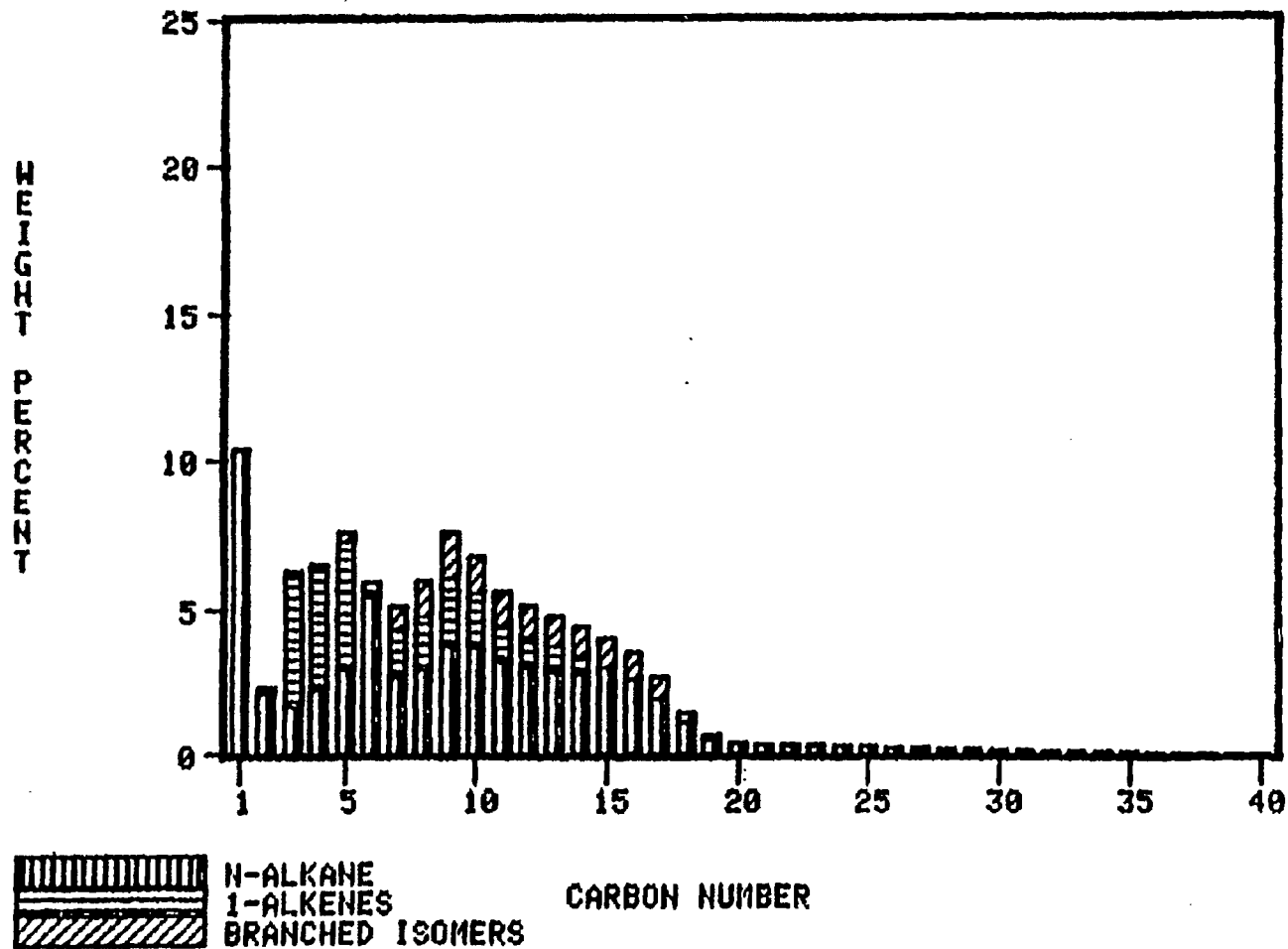


Figure 55

HYDROCARBON WEIGHT DISTRIBUTION
8523-1-4-29

CONTAINS POTENTIALLY
PATCHABLE DATA.
NOT FOR PUBLICATION

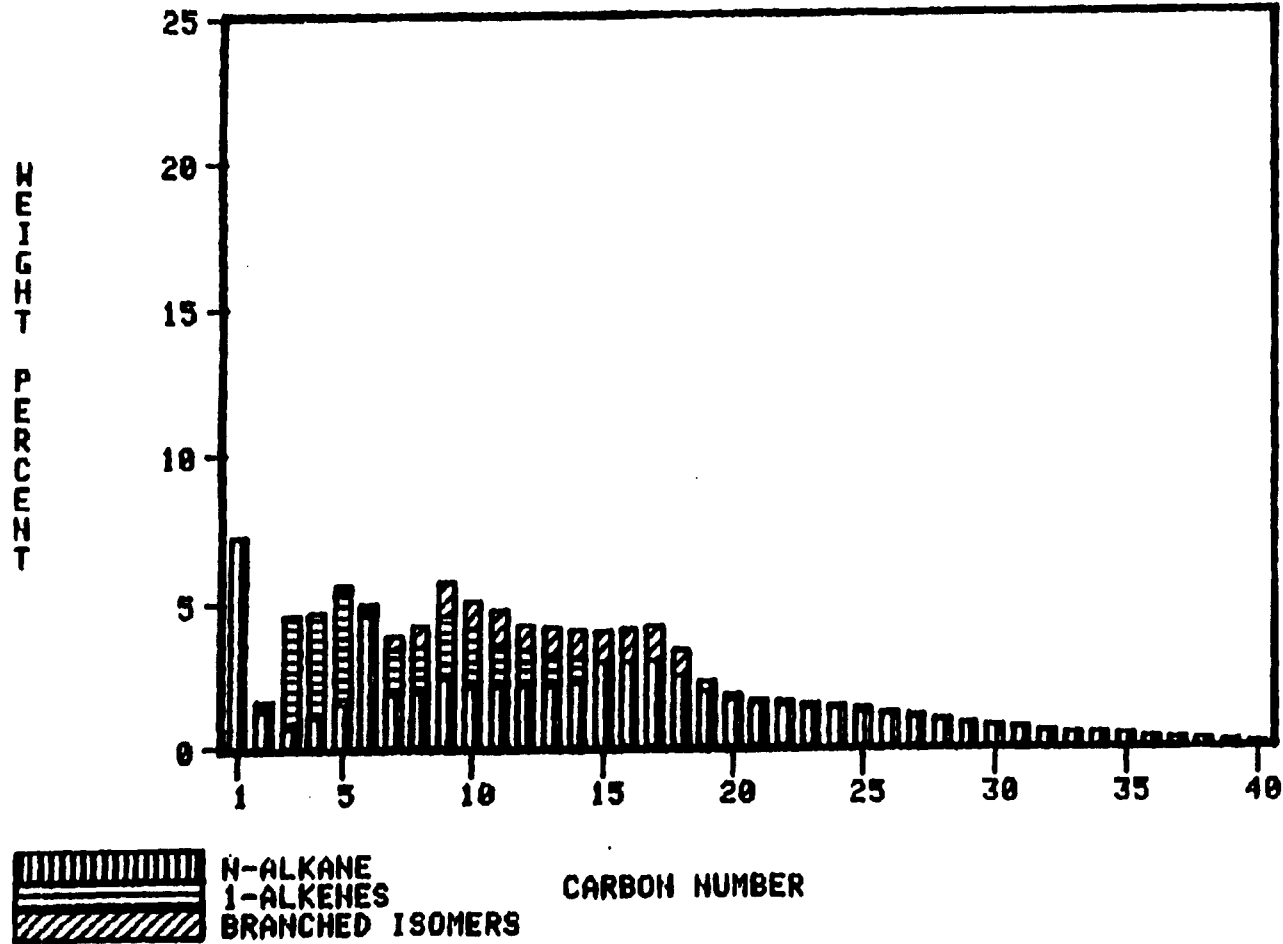
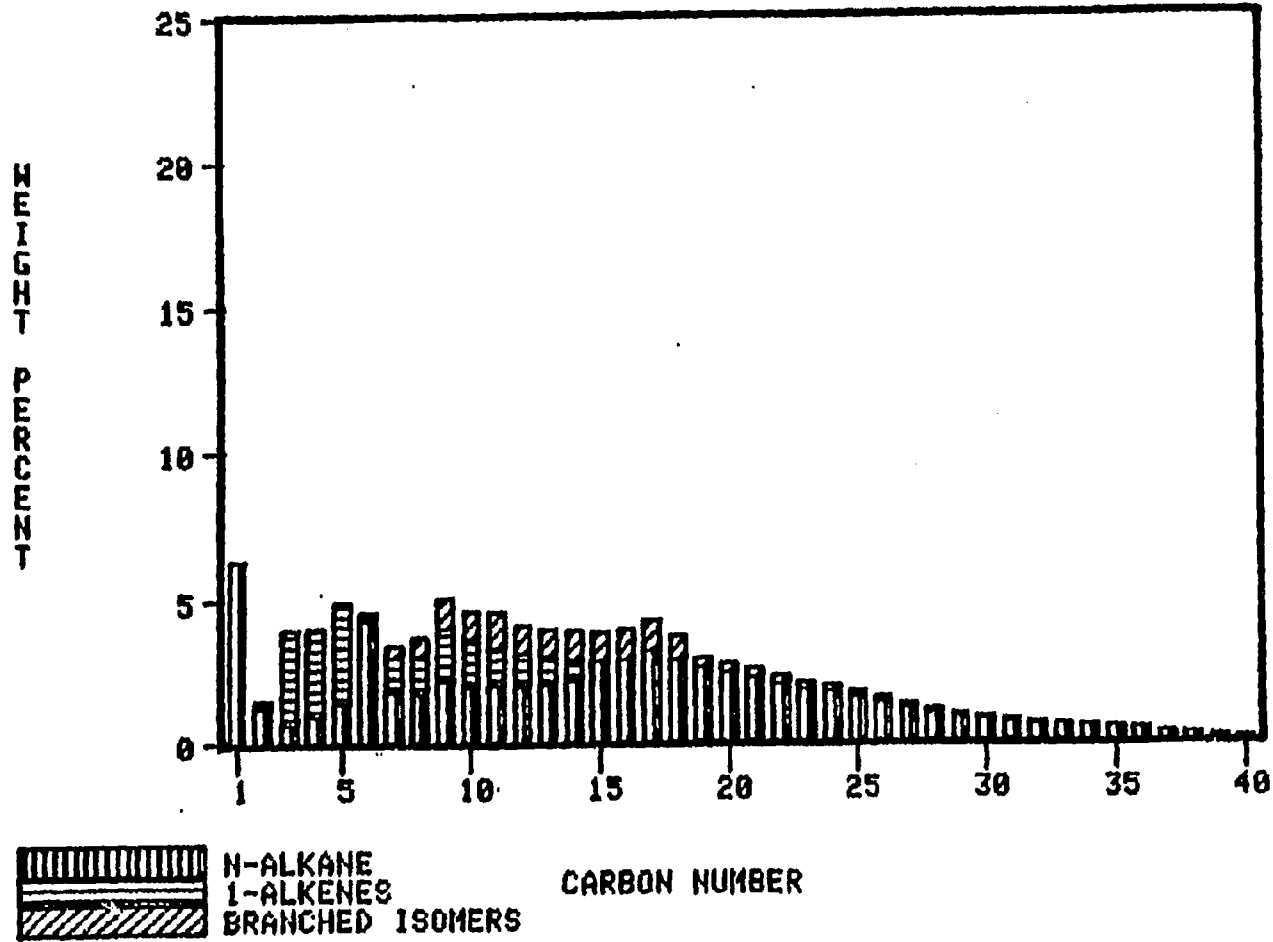


Figure 56

HYDROCARBON WEIGHT DISTRIBUTION

8523-1-4-32

CONTAINS POTENTIALLY
PATENTABLE DATA -
NOT FOR PUBLICATION



HYDROCARBON WEIGHT DISTRIBUTION

8523-1-4-34

CONTAINS POTENTIALLY
PATENTABLE DATA.
NO. 100-10-100000

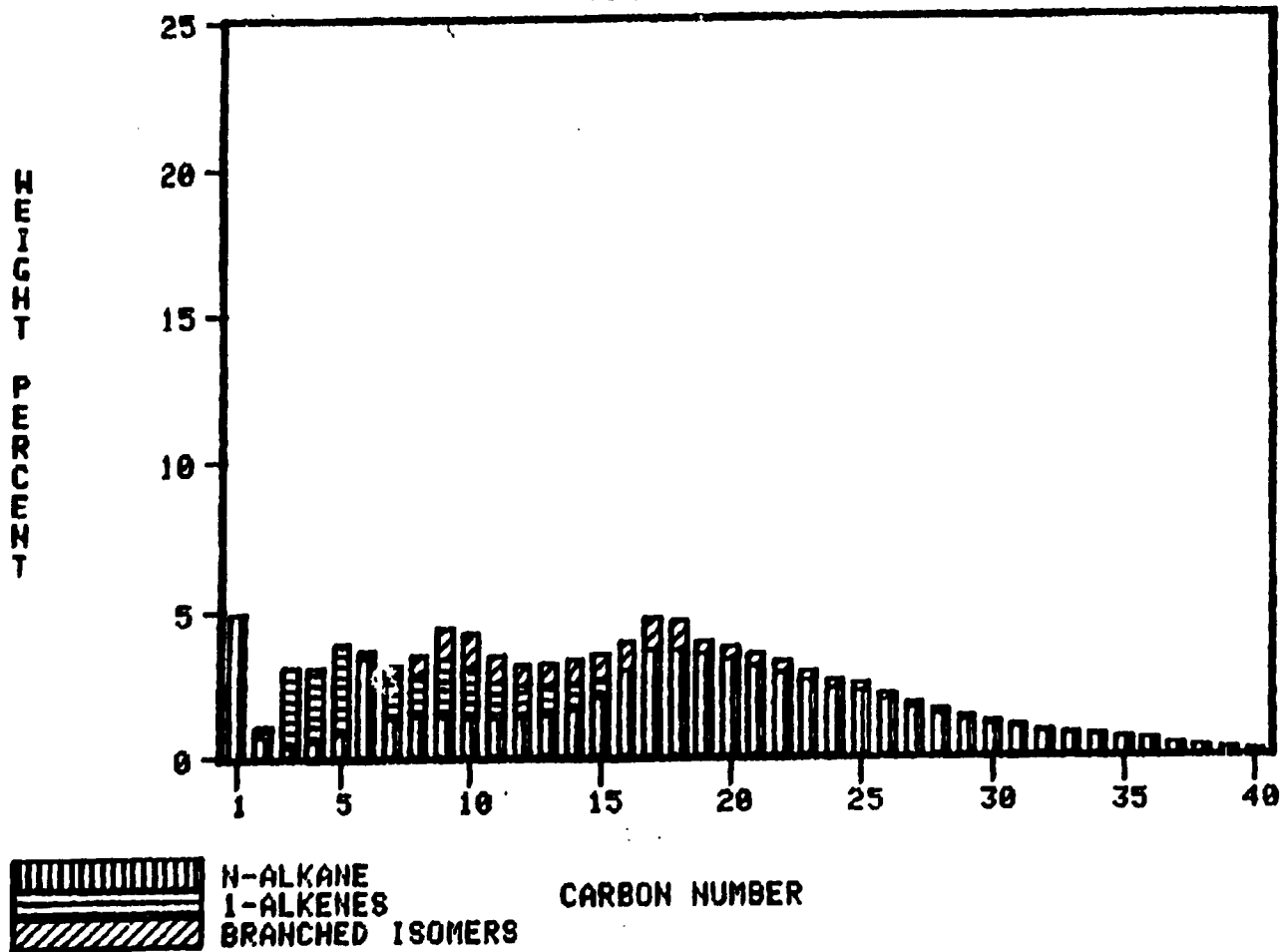


Figure 5B

HYDROCARBON WEIGHT DISTRIBUTION

8523-1-4-38

CONTAINS POTENTIALLY
PATENTABLE DATA.
NOT FOR PUBLICATION

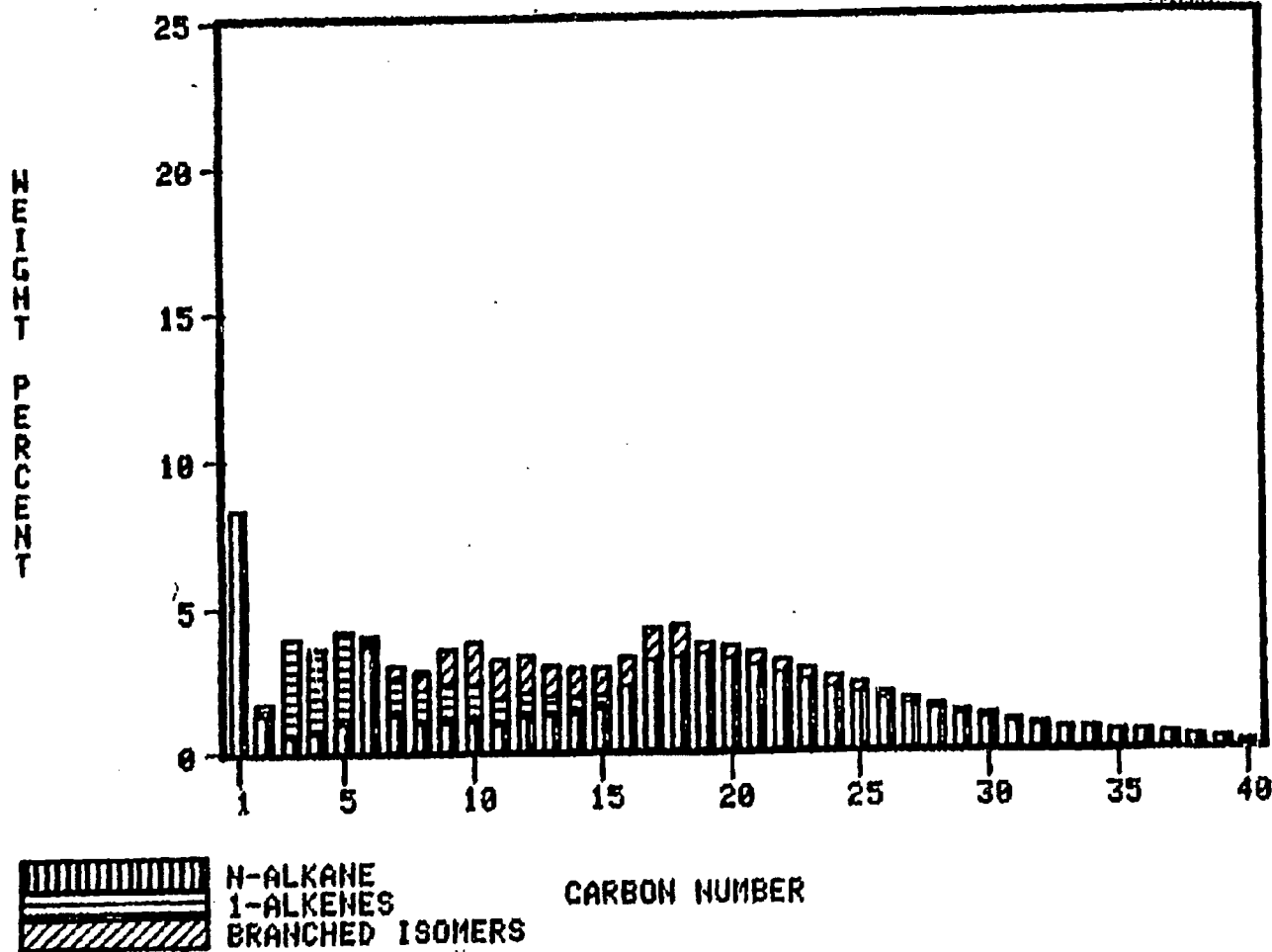


Figure 59

HYDROCARBON WEIGHT DISTRIBUTION

8523-1-4-40

CONTAINS POTENTIALLY
PATENTABLE DATA -
NOT FOR PUBLICATION

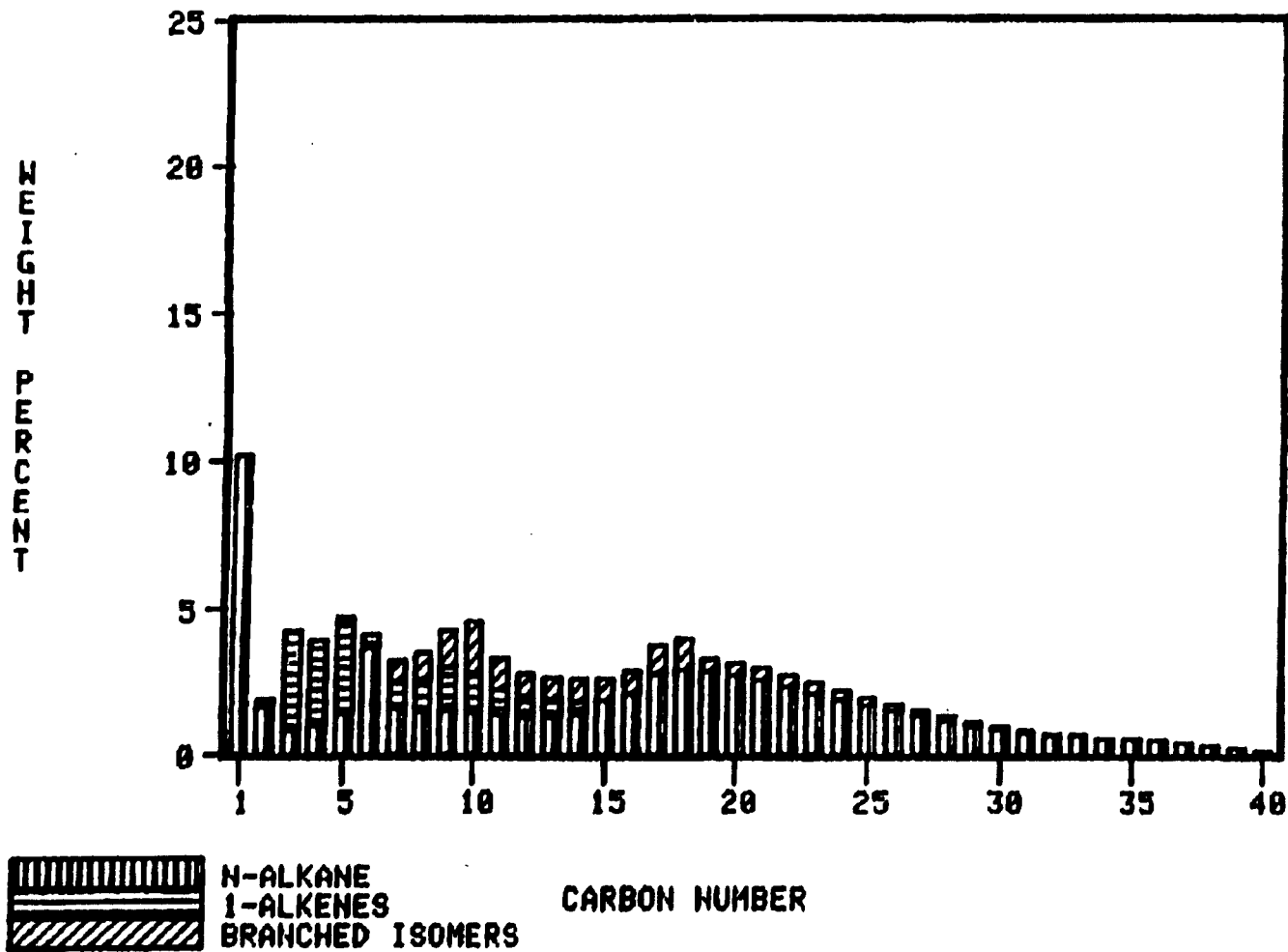


Figure 60

HYDROCARBON WEIGHT DISTRIBUTION

8523-1-4-43

CONTAINS POTENTIALLY
PATENTABLE DATA -
NOT FOR PUBLICATION

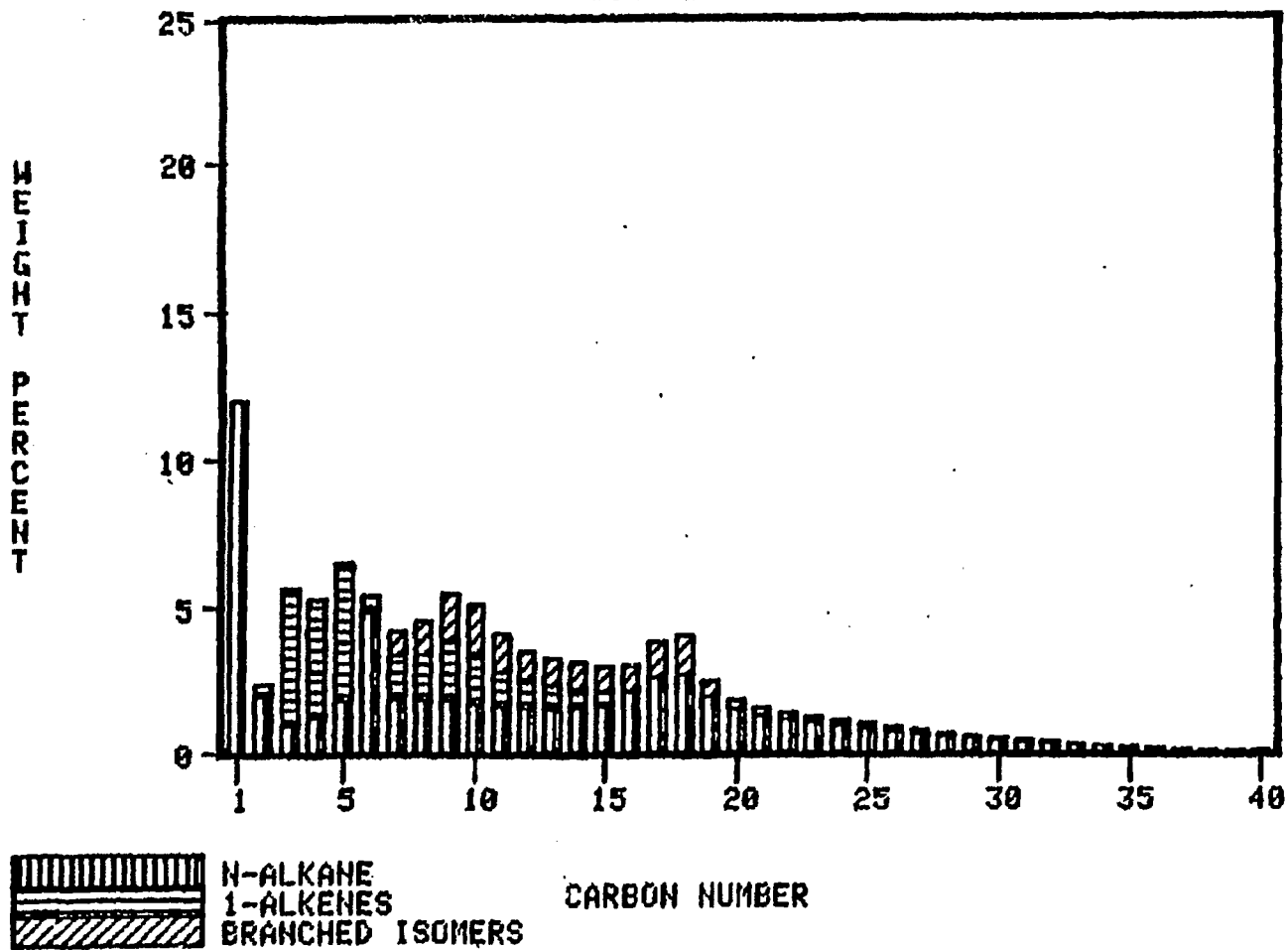


Figure 61

HYDROCARBON WEIGHT DISTRIBUTION

8523-1-4-47

CONTAINS POTENTIALLY
PATENTABLE DATA -
NOT FOR PUBLICATION

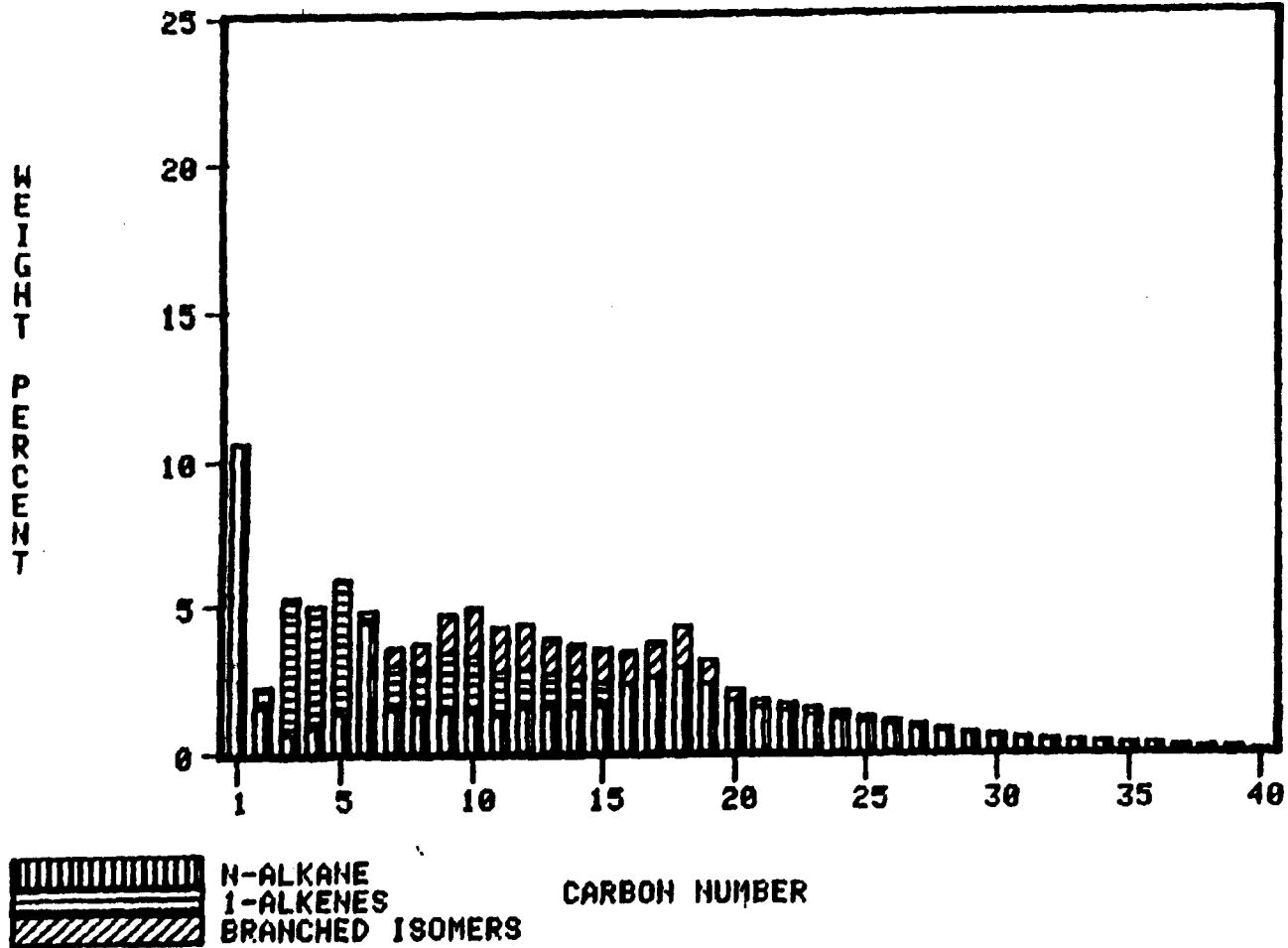
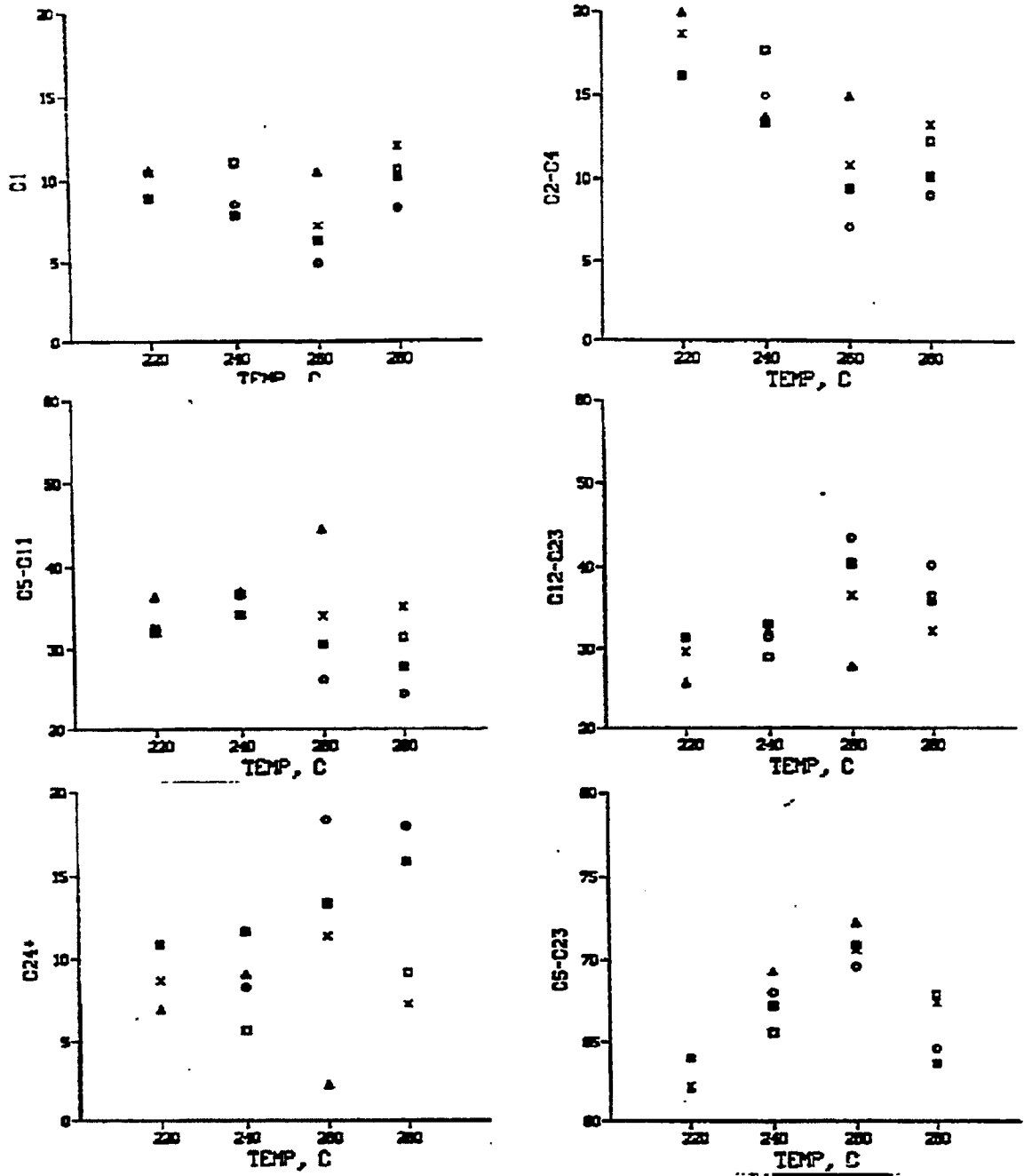


Figure 62

CONTAINS POTENTIAL
PATENTABLE DATA-
NOT TO BE PUBLISHED

HYDROCARBON SELECTIVITY- WT%



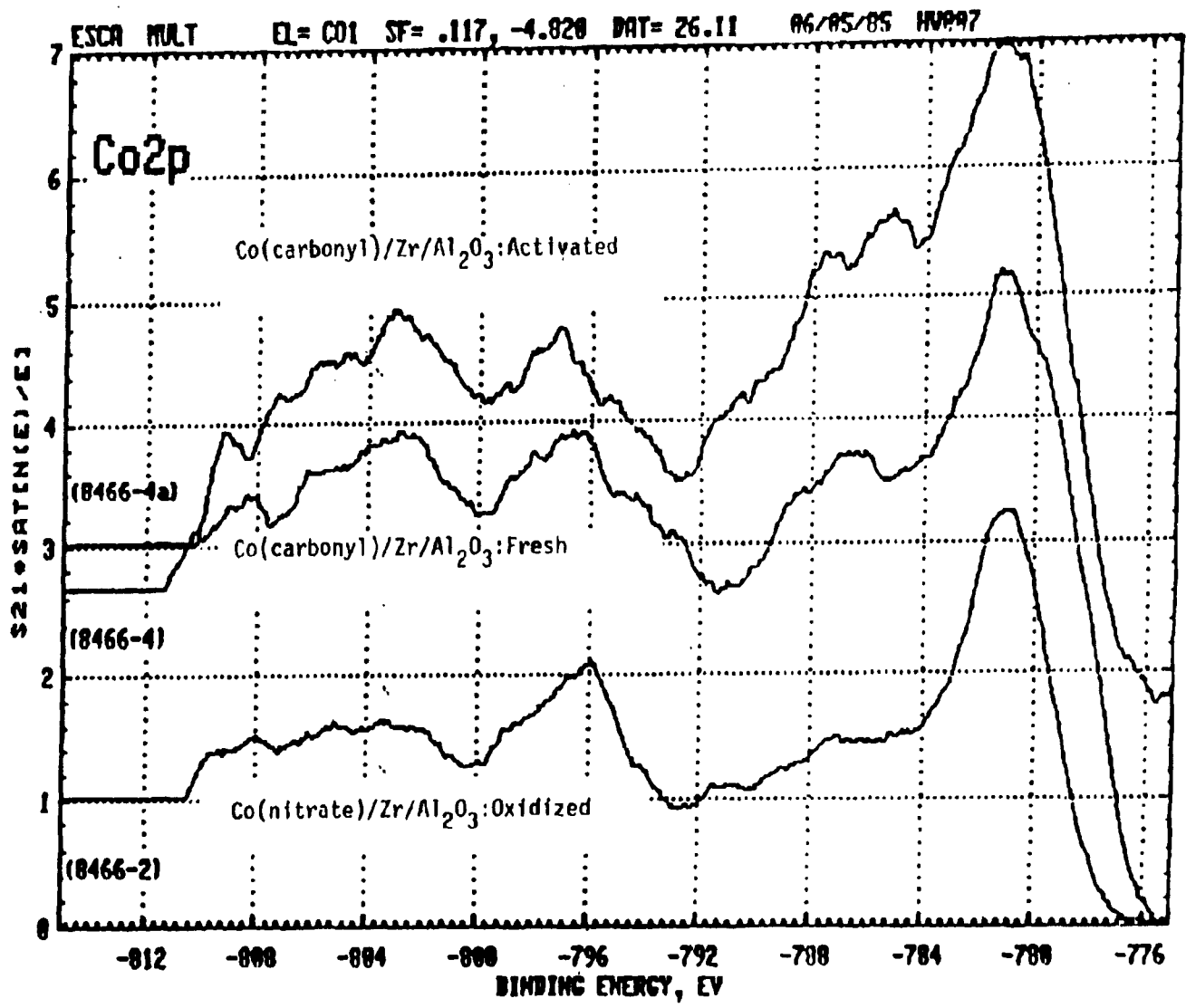
▲ CO/H2 = 1.0, GHSV = 300 1/HR

x 1.5, 300

□ 2.0, 300

■ 1.5, 150

○ 2.0, 150



X-RAY PHOTOELECTRON SPECTRA

FIGURE 63

CONTAINS POTENTIAL
REPROducible DATA
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