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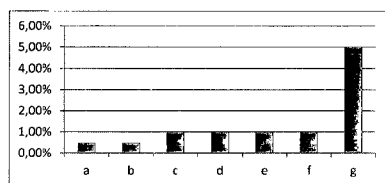
— with amended claims (Art. 19(1))

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(54) Title: FORMULATION OF A NEW DIESEL FUEL SUITABLE FOR DIESEL ENGINES

FORMULA OF NEW FUEL FOR DIESEL ENGINES
(volumetric optimal percentage)

Group 1: chemicals



a: nitromethane 0,1% - 2%
b: propanone 0,1% - 2%
c: 2-hexyl nitrate 0,5% - 3%
d: amyl nitrate 0,5% - 3%
e: acetaldehyde 0,5% - 3%
f: cyclohexane 0,5% - 3%
g: diethyl carbonate 2% - 10%
h: jojoba oil 3% - 12%
i: jatropa curcas oil 3% - 15%
l: brassica carinata oil 3% - 20%
m: camellia sasanqua oil 3% - 25%

Group 2: vegetal oils

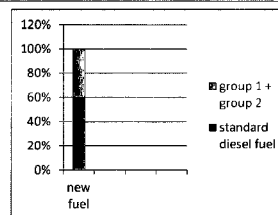
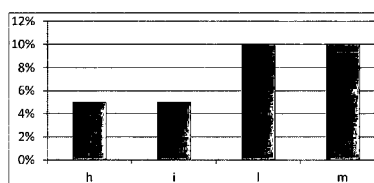


fig. 1

(57) Abstract: The new fuel conceived for diesel engines is formulated using one part of standard diesel fuel and two groups of components with different characteristic rating. The first group is composed by reformulated chemicals, while the second group is made by a blend of vegetal oils properly balanced. The fuel obtained with this formulation has a better thermodynamic performance and allows an appreciable reduction of carbon dioxide (CO₂) and particulate matter (PT) output which are, respectively, approximately 50% and 60% lower