

Title (en)
SINGLE-BLADE AIRCRAFT ROTOR

Title (de)
EINFLÜGELFLUGZEUGROTOR

Title (fr)
ROTOR D'AERONEF MONO-PALE

Publication
EP 4054934 A1 20220914 (FR)

Application
EP 20800149 A 20201104

Priority
• FR 1912342 A 20191104
• EP 2020080951 W 20201104

Abstract (en)
[origin: WO2021089616A1] Rotary wing aircraft rotor provided with a single blade (1) which has a longitudinal pitch axis (LL) and is hingedly mounted on the rotating shaft of the rotor about an axis (4) transverse to said rotating shaft, the wing system depicting a cone when the angle of its pitch is not zero, the rotor having a weighted device (6) for balancing the result (F8) of the horizontal component (F6) of the lifting force and the rotational drag force (F7) acting on the blade, the device being mounted so as to rotate with the wing system about its rotational shaft and generating, under the effect of the centrifugal force to which it is subjected when the wing system rotates, a horizontal force (F9) which is applied to the rotational shaft of the rotor, counter to the aforementioned result, with an intensity depending on the position of the weight(s) of the balancing device relative to the rotational shaft of the rotor.

IPC 8 full level
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CPC (source: CN EP US)
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