The Momentum Engine

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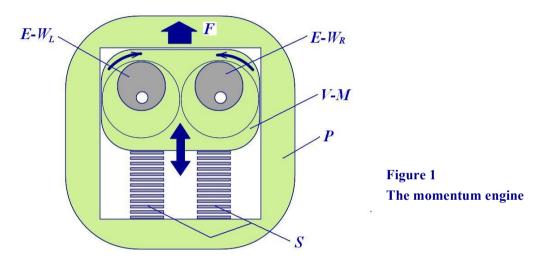
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Abstract: The Newton third law is wrong! Moreover the momentum also is not conservation, So a kind of new space propeller nope don't may, That is the momentum engine.

Key Words: momentum; engine; propeller

The momentum engine drives be with the inertial centrifugal force, Figure 1 namely is a momentum engine.



In figure 1, the pedestal of engine is P, in the inside, the vibration machine that namely V-M. On V-M have two eccentricity wheel that E- M_L and E- W_R . In P that V-M slippages to go up and adown. The two spring S impel V-M to go up prop up that P the wall. That two eccentricity wheel that E- M_L and E- W_R , Each to direction reverse rotation. The resultant force of the centrifugal force that it engender, be up and adown cycle changes.

In V-M The resultant force of the centrifugal force up, its very big centrifugal force be to go wall of P of direct action, namely that F of the propulsion of the momentum engine. In that V-M, the resultant force of the centrifugal force while adown, because the spring S the elasticity, so that on P the action very small.

Therefore the momentum engine that propulsive force F

$$F = \left(\int_{0}^{\pi} m \cdot r \cdot \omega^{2} \cdot \sin \alpha d\alpha\right) - \left(\frac{m_{V-M}}{m_{all}} \int_{\pi}^{2\pi} m \cdot r \cdot \omega^{2} \cdot \sin \beta d\beta\right)$$
 (01)

Here m_{V-M} is the vibration machine V-M the mass, m_{all} is the momentum engine and aircraft all the mass.

otherwise by (01)
$$F_{up} = \int_{0}^{\pi} m \cdot r \cdot \omega^{2} \cdot \sin \alpha d\alpha$$
 (02)

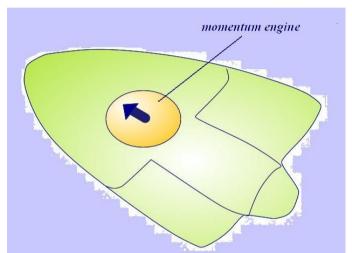
and
$$F_{down} = \frac{m_{V-M}}{m_{all}} \int_{\pi}^{2\pi} m \cdot r \cdot \omega^2 \cdot \sin \beta d\beta$$
 (03)

In (03) that F_{down} ought is the minus, so (01) also be $F = F_{up} - F_{down}$ (04) In (01) that

 $\frac{m_{V-M}}{}$ commonly very small the value, so propulsive force F shall very big.

In (01), (04) that F_{up} and F_{down} the value is differ, that is because the Newton third law is wrong, here to the pedestal **P** action is differ, in both sides of the vibration machine **V-M**.

The momentum engine can equip the interior in aircraft, It of the propulsive force is an



inertial force, so the do not with the action. It is exterior supernatural, because of inertial force and gravitation equivalent, so look from it the exterior, it like has no engine, but it can move. It is hitherto have never had that a thruster.

Figure 2 The aircraft of momentum engine

The momentum engine can use in any transportation machinery,

whether it is in sky, land or sea; either in surface or underwater; whether in the Earth's aerosphere or outer space, all can use.

Figure 2 is a space shuttle to equip the momentum engine.

Because The Momentum Engine the thrust of the creation is an inertial force, so also be entitle Inertial Force Propeller. It will be a kind of propulsion engine that mankind will soon the most extensive usage.

A great ship asks deep water. Tripod cat non-bureau chief!

Excursus — Actual computation

Suppose that data in the equipment is: the $m = 10 \,\mathrm{kg}$; $r = 0.05 \,\mathrm{m}$; $\omega = 2 \,\pi \times 30000/60$ $(rad)(s)^{-1}$; $m_{all} = 2000 kg$; $m_{V-M} = 20 kg$.

Substitution formula progress computation:

$$F_{up} = \int_{0}^{\pi} 10kg \cdot 0.05m \cdot \left(2\pi \times 30000 / 60(rad)(s)^{-1}\right)^{2} \sin \alpha d\alpha$$

$$\approx \int_{0}^{\pi} 4929800 \left(kg \cdot m/s^{2}\right) \sin \alpha d\alpha \tag{05}$$

According to the new secondly the laws of motion^[4], the F_{up} acts to whole the force on the aeronef, through conversion is should:

$$F_{up-m-all} = \int_{0}^{\pi} 2000kg \cdot 492980m/200^{2} s^{2} \sin \alpha d\alpha$$

$$\approx \int_{0}^{\pi} 2000kg \cdot 12 \, m/s^{2} \sin \alpha d\alpha \qquad (06)$$

In the engine of another one side, because the action of the spring, the force with the length of the spring, the inverse proportion that the spring to both sides mass distributes. So the force F_{down} is the formula (03) at this time.

In this time because of the move of the spring, the formula the $mr\omega^2$ calculates, toing have to correct. First:

$$m \cdot r \cdot \omega^2 = m \cdot \frac{u^2}{r} \tag{07}$$

Hypothesis, the spring move 0.005 m:

$$m \cdot \frac{u^2}{r} \Rightarrow m \cdot \frac{u^2}{r + 0.005m} = 10kg \cdot \frac{24849(m \cdot s^{-1})^2}{0.05m + 0.005m}$$
$$= 10kg \cdot 451800 \, m/s^2 \tag{08}$$

Is a value to correct hereafter. Will all the parameter substitution formula(03):

$$F_{down} = \frac{20kg}{2000kg} \int_{\pi}^{2\pi} 4518000 \, kg \cdot m/s^2 \sin \beta d\beta$$
$$= \frac{1}{100} \int_{\pi}^{2\pi} 4518000 \, kg \cdot m/s^2 \sin \beta d\beta$$
(09)

Conversion Fdown is arrived the action in the force of the complete aeronef:

$$F_{down-m-all} = \frac{1}{100} \int_{\pi}^{2\pi} 2000 kg \cdot 451800 \, m/200^2 \, s^2 \sin \beta d\beta$$

$$\approx \frac{1}{100} \int_{\pi}^{2\pi} 2000 kg \cdot 11 \, m/s^2 \sin \beta d\beta$$

$$= \int_{\pi}^{2\pi} 2000 kg \cdot 0.11 \, m/s^2 \sin \beta d\beta$$
(10)

Subtract the force that reverse:

$$F_{up-m-all} - F_{down-m-all}$$

$$= \int_{0}^{\pi} 2000kg \cdot 12 \, m/s^{2} \sin \alpha d\alpha - \int_{\pi}^{2\pi} 2000kg \cdot 0.11 \, m/s^{2} \sin \beta d\beta$$

$$= 2000kg \cdot 12 \, m/s^{2} \int_{0}^{\pi} \sin \alpha d\alpha - 2000kg \cdot 0.11 \, m/s^{2} \int_{\pi}^{2\pi} \sin \beta d\beta$$
(11)

Because the integral of the both sides is all a sine curve, so make the coefficient of the both sides subtract mutually, equivalent namely:

$$F_{up-m-all} - F_{down-m-all} = 2000kg \cdot 11.89 \, m/s^2 \int_0^{\pi} \sin \alpha d\alpha$$
 (12)

The for this reason the effective value of the half a period sine curve is should:

$$F_{up-m-all} = \left(2000kg \cdot 11.89 \, m/s^2\right) \cdot \frac{1}{2\sqrt{2}}$$

$$\approx 2000kg \cdot \left(11.89 \cdot 0.3535\right) m/s^2 \approx 2000kg \cdot \left(4.203\right) m/s^2 \tag{13}$$

Therefore this momentum engine, it is may to the aeronef of the 2000 kg, the thrust of the 4.203 m/s^2 the acceleration of that creation durative on.

So this is the very puissant thrust, if is in the astrospace, the flying machine may went on speedup with the 4.203m/s² the acceleration, is may at few time to velocity attaining maximum.

So the momentum engine is to may realization, is very miraculous.

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