
Subject: Re: Angular Momentum Cancelation
Posted by [freeman](#) on Sun, 21 Jul 1985 00:53:05 GMT
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Article-I.D.: spar.411
Posted: Sat Jul 20 20:53:05 1985
Date-Received: Sun, 21-Jul-85 23:44:55 EDT
References:
Reply-To: freeman@max.UUCP (Jay Freeman)
Organization: Schlumberger Palo Alto Research, CA
Lines: 14
Summary:

[]

In article [dallas@uiucdcsb.Uiuc.ARPA](#) writes:

>

>There is a Soviet helicopter. Its NATO designation is HORMONE (don't ask
>me why) which has two counter-rotating sets of blades and no tail rotor.

>

>I do not know of any american helicopters that use this principle.

An American manufacturer -- I think it was Kaman -- used to make some
helicopters that used contrarotating blades that meshed like the blades of
an eggbeater. The Navy bought some of them.

--

Jay Reynolds Freeman (Schlumberger Palo Alto Research)(canonical disclaimer)

Subject: Re: Angular Momentum Cancelation
Posted by [dma](#) on Mon, 22 Jul 1985 14:15:01 GMT
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Article-I.D.: ssc-vax.57
Posted: Mon Jul 22 10:15:01 1985
Date-Received: Thu, 25-Jul-85 20:02:26 EDT
References:
Organization: Boeing Aerospace Co., Seattle, WA
Lines: 14

>

> There is a Soviet helicopter. Its NATO designation is HORMONE (don't ask
> me why) which has two counter-rotating sets of blades and no tail rotor.

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> I do not know of any american helicopters that use this principle.
>
> Apostolos Dollas
> USENET: ...!{pur-ee,ihnp4}!uiucdcs!dollas
> ARPA: dollas@uiuc.arpa

The Boeing/Vertol CH-47 also has counter-rotating rotors, and no tail rotor.

Dennis Anderson @ Boeing Aerospace

Subject: Re: Angular Momentum Cancelation
Posted by [Anonymous](#) on Wed, 24 Jul 1985 23:58:38 GMT
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Originally posted by: bl@hplabsb.UUCP

Article-I.D.: hplabsb.3017
Posted: Wed Jul 24 19:58:38 1985
Date-Received: Fri, 26-Jul-85 23:55:41 EDT
References:
Organization: Hewlett Packard Labs, Palo Alto CA
Lines: 15

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> me why) which has two counter-rotating sets of blades and no tail rotor.
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> I do not know of any american helicopters that use this principle.
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> Apostolos Dollas
> USENET: ...!{pur-ee,ihnp4}!uiucdcs!dollas
> ARPA: dollas@uiuc.arpa

There was an article in "Sport Aviation" a couple of month ago about a fellow (American) who built his own helicopter with counter-rotating blades (and, of course, no tail rotor). The rotors are on seperate shafts that formed a narrow V. The rotors (two blades each) inter-mesh as they rotate.

Subject: Angular Momentum Cancelation
Posted by [fisher](#) on Fri, 18 Oct 2013 20:21:49 GMT
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Article-I.D.:
Date: Mon, 15-Jul-85 13:27:56 EDT
Article-I.D.: decwrl.3115
Posted: Mon Jul 15 13:27:56 1985
Date-Received: Wed, 17-Jul-85 06:41:41 EDT
Sender: daemon@decwrl.UUCP
Organization: DEC Engineering Network
Lines: 11

Someone asked for an example of angular momentum cancellation. Isn't there a helicopter which has two counterrotating, coaxial blades, rather than a tail rotor? (Perhaps it was a Popular Science "Coming next year" article that talked about it, rather than something real).

Burns

UUCP: ... {decvax|allegra|ucbvax}!decwrl!rhea!dvinci!fisher

ARPA: fisher%dvinci.dec@decwrl.ARPA

Subject: Re: Angular Momentum Cancelation
Posted by [dollas](#) on Fri, 18 Oct 2013 20:21:50 GMT
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Article-I.D.:
Date: Tue, 16-Jul-85 09:48:00 EDT
Article-I.D.: uiucdcsb.15700023
Posted: Tue Jul 16 09:48:00 1985
Date-Received: Thu, 18-Jul-85 05:31:10 EDT
References:
Lines: 9
Nf-ID: #R:decwrl.UUCP:-311500:uiucdcsb:15700023:000:314
Nf-From: uiucdcsb.Uiuc.ARPA!dollas Jul 16 08:48:00 1985

There is a Soviet helicopter. Its NATO designation is HORMONE (don't ask me why) which has two counter-rotating sets of blades and no tail rotor.

I do not know of any american helicopters that use this principle.

Apostolos Dollas

USENET: ...!{pur-ee,ihnp4}!uiucdcs!dollar

ARPA: dollar@uiuc.arpa

Subject: Re: Angular Momentum Cancellation
Posted by [KING\[1\]](#) on Fri, 18 Oct 2013 20:21:59 GMT
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Article-I.D.:

Date: Thu, 18-Jul-85 09:23:14 EDT

Article-I.D.: dciem.1640

Posted: Thu Jul 18 09:23:14 1985

Date-Received: Thu, 18-Jul-85 11:50:28 EDT

References:

Reply-To: king@dciem.UUCP (Stephen)

Organization: D.C.I.E.M., Toronto, Canada

Lines: 7

Summary:

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I believe that the Soviet helicopter 'Hind' uses two counter-rotating sets of blades mounted coaxially, but, unless I'm mistaken, it also has a tail rotor for controlling yaw. Unlike film spools, however, the helicopter blades will not change in mass as the turn.

--==--== sjk.