Re: Here's one for Bob (hope it makes your head spin)

Source: http://unix.derkeiler.com/Newsgroups/comp.os.vms/2007−09/msg00452.html

- *From*: Jeff Campbell <n8wxs@xxxxxxxx>
- *Date*: Fri, 07 Sep 2007 20:05:57 −0600

Ron Johnson wrote:

> On 09/07/07 16:27, Doug Phillips wrote:
>
> > Ron Johnson wrote:
> >
> > > On 09/07/07 10:08, Doug Phillips wrote:
> > >
> > > > On Sep 7, 7:40 am, Ron Johnson
> > > > <ron.l.john...@xxxxxxx> wrote:
> > > >
> > > > > Guns use chemically
> > > > > unstable materials to
> > > > > "[produce] a sudden
> > > > > expansion of the material
> > > > > usually accompanied by the
> > > > > production of
> > > > > heat and large changes in
> > > > > pressure (and typically also
> > > > > a flash
> > > > > and/or loud noise) upon
> > > > > initiation; this is called the
> > > > > explosion.]
> > > > >
> > > > > The gas expanding in the
> > > > > confined area of the barrel
> > > > > "blows" the
> > > > > projectile out the barrel like
> > > > > a breeze blows a leaf, or a
> > > > > person
> > > > > blows a feather with his
> > > > > breath.
> > > > >
> > > > > OTOH, rockets "[obtain]
> > > > > thrust by the reaction to the
> > > > > ejection of
> > > > > fast moving fluid from
> > > > > within a rocket engine."

> However... the gun's recoil
> is an expression of Newton's
> 3rd.

> Newton's third law: "For every action there
> is an equal an opposite
> reaction."
>
> You have described actions −− chemicals
> exploding, gas expanding,
> breeze and breath blowing −− and named the
> reactions to those actions.
> Where is the law not applicable in any of
> your examples?

How is "breeze pushing a leaf" an opposite reaction?

<h