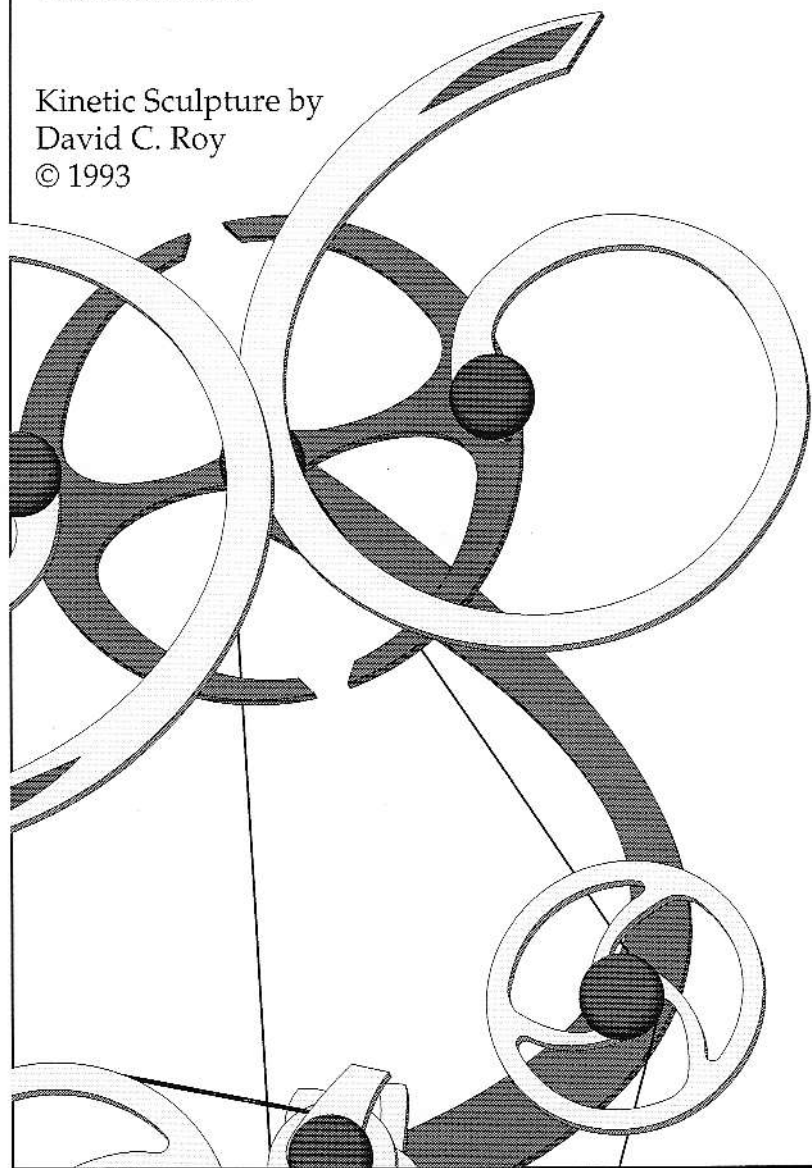


Duet

Directions

Kinetic Sculpture by
David C. Roy
© 1993



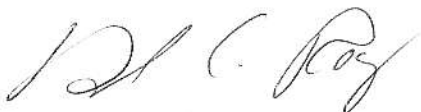
To the Owner:

Hello,

Welcome to the world of Wood That Works. This Duet is number _____ out of a possible 150 pieces. It was made by me during the month of _____ in 1996. I build, test and pack each sculpture myself, doing 6-12 pieces of an edition per month. It takes several years for me to complete an edition and some are never finished as I move on to new designs. Designing and building kinetic sculptures like Duet has been my full time occupation for more than 18 years. I hope Duet brings you and other viewers as much enjoyment as I've found in making it.

Duet has been mounted on a wall in my shop and running for at least 2 complete windings (several hours) before I pack it. I make every effort in design, construction and packing to make sure the piece will perform problem free for years to come. I use only the finest materials.

It leaves me happy and satisfied to find that my work has made it's way into new lives. I hope it brings you years of enjoyment.



David C. Roy

About Duet

The spiral wheels in Duet are pushed in the same direction when the wheel that carries them rotates in the clockwise direction. They rotate freely when the carrying wheel counter-rotates.

I find interesting patterns emerge at the tips of the spirals where I've placed the dark accents. These points remind me of a pair of dolphins playing. At times their movements are synchronized as the spirals move at the same rate in the same phase. At other times the motion is 180 degrees out of phase and the spirals intertwine at the center of the carrying wheel.

The motion of the 3 upper wheels lock together as the spirals match speed and gain momentum from the carrying wheel. The spirals break free and begin their intertwining dance again as the carrying wheel begins to slow and reverse.

Specifications:

Limited Edition of 150

Size: 39"h x 31"w x 6"d

Additional 16" needed below for weight

Power Source: negator spring

Approximate Run Time: 2 1/2-3 hours

Materials: hardwood plywood,
bearings, string

Duet © 1993

Patent No. 4637152

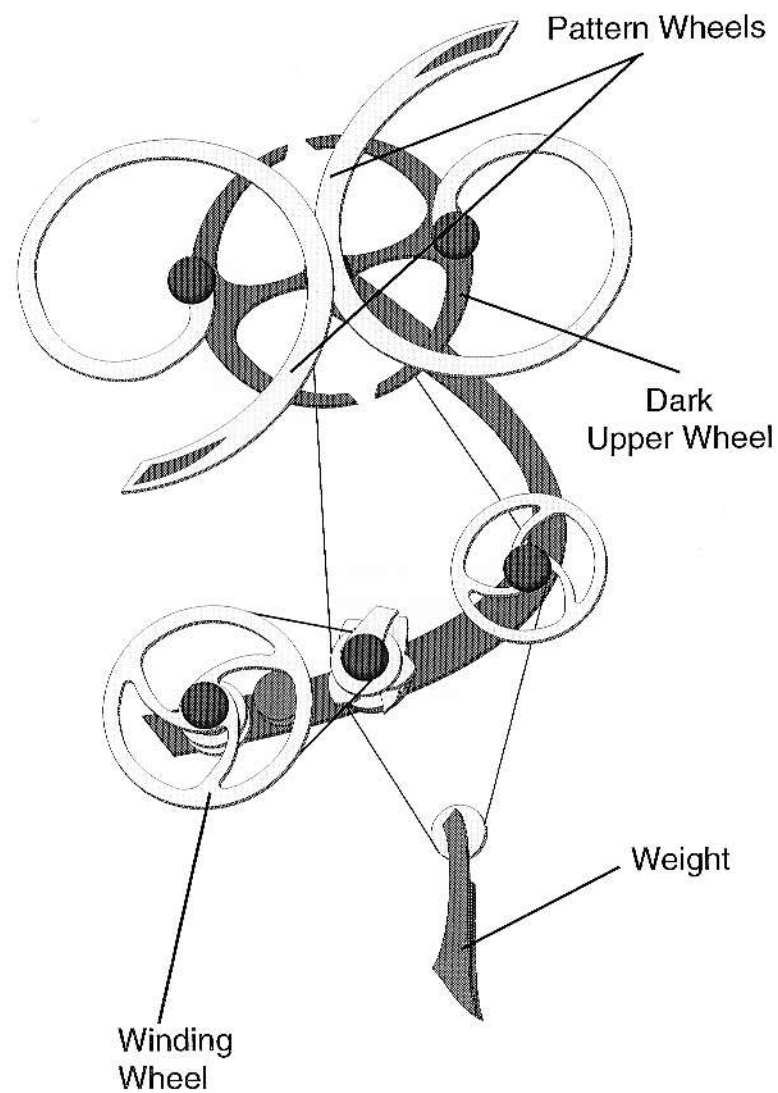
Directions:

To Wind

- Turn the winding wheel clockwise 20 turns.

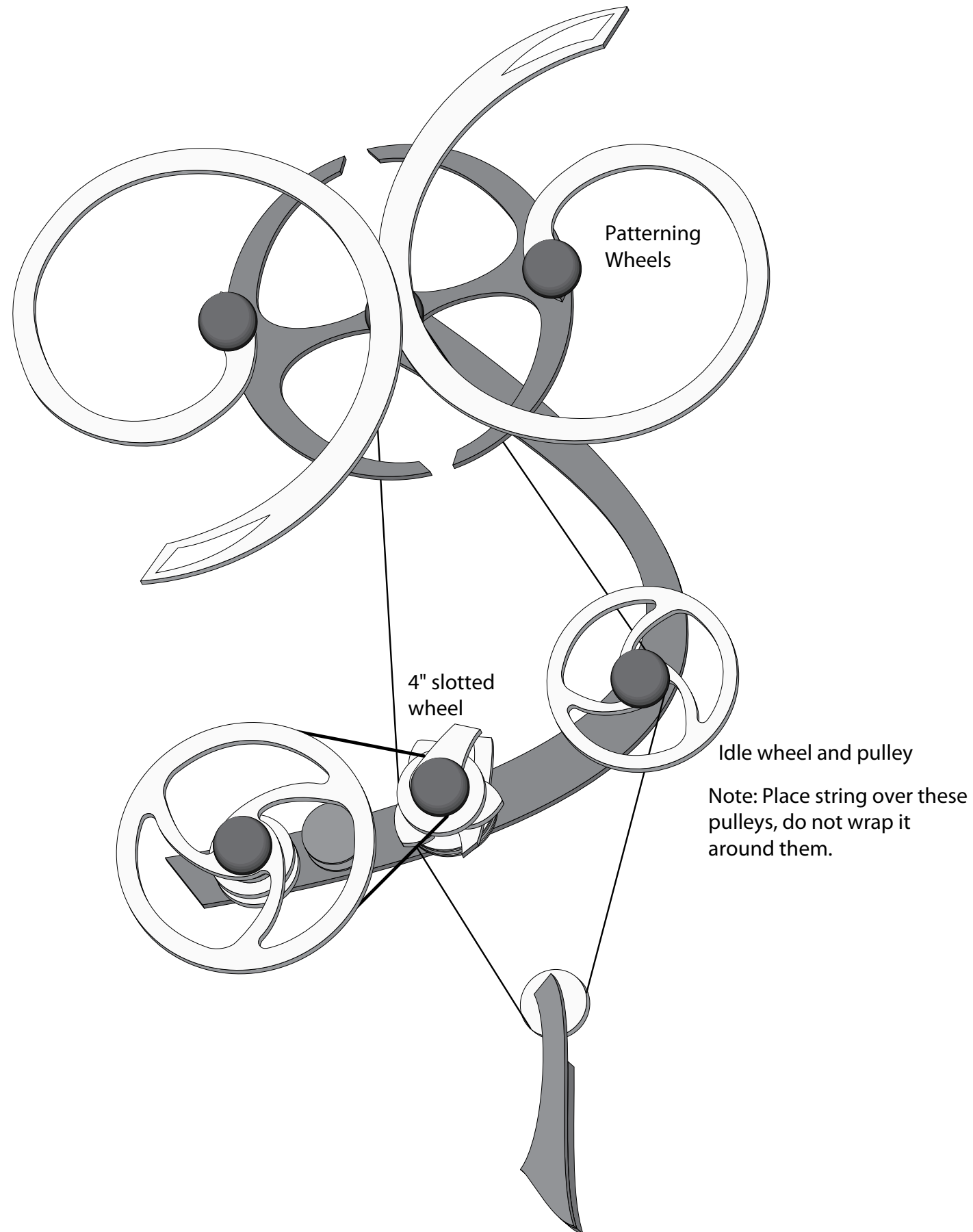
To Start

- If Duet does not start immediately after winding, gently push the dark stained upper wheel in a counter-clockwise direction until the mechanism clicks.



About The Artist:

Mechanics and motion have always fascinated me. During college I studied physics, engineering and chemistry to further my understanding of how things worked. I graduated with a degree in physics from Boston University in 1974. This intuitive understanding of motion and mechanics combined with the artistic influences of my wife, Marji, led me to the creation of kinetic sculptures. In 1975 we started "Wood That Works" and I became a full time sculptor. Since then I have designed and handcrafted over 60 different limited edition and one of a kind kinetic sculptures. I have exhibited in numerous juried, invitational and group events. My work is displayed in galleries and private collections around the world. I currently maintain a studio in rural eastern Connecticut.



Restring Duet

Thread the string through the small hole in the divider in the spool behind the patterning wheels. I use a dental floss threader.

Draw 3 feet of string out towards the back of the sculpture.

Wrap the remaining aprox 8 feet of string around the front spool in a counte-clockwise direction until about 4 feet of string remain.

Thread the rear 3 foot string through the hole behind the rear slot of the 4" slot wheel. Pull the string all the way through until no slack remains between the upper spool and the slot wheel. There should be no loops of string around the rear upper spool and the string hole in the 4" slot wheel should be up.

Turn the 4" slot wheel counter-clockwise while letting the string slip through the hole until the 3" lever points to 9 o'clock. Tie a knot in the string at this point.

Take the other string around the right side of the idle wheel and rest it in the pulley behind the wheel. Do not wrap it around the pulley. Tie this string through the hole in the front slot of the 4" slot wheel. Wrap 1 loop of this string around the front slot in a counter clockwise direction.

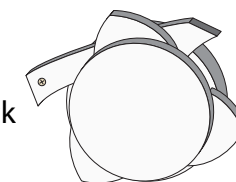
Suspend the weight from this string.

Final adjustment

Try running the sculpture. If it runs too slowly and stalls, shorten the length of string between the slot wheel and the upper spool by drawing a half inch of string through the hole and tying another knot. If the sculpture runs too quickly lengthen the string by retieing the knot further down the string.

The weight string can be adjusted by pulling the front string knot through its hole and retieing it.

Lever points to 9 o'clock



Patterning Wheels

Base

Wall

