(57) Abrégé/Abstract:
This invention is a structural building stud that provides interior cavity space for insulation. It also affords construction time savings for in-wall infrastructure systems such as wiring, plumbing, telephone, networking, etc. The common building method is to use solid lumber studs which have the thermal characteristics of conducting thermal energy between the separated air spaces. This invention breaks the conductivity of the two wall surfaces and also provides time savings during the construction period by affording the interior cavity space for in-wall infrastructure. Building corners and spaces behind partition ties are easily assessable for a complete insulation barrier. This invention is comprised of two vertical upright pieces separated by additional spacer blocks to maintain consistent cavity. These pieces are connected by gang-nail plates, nails, screws, glue or other fasteners or methods. The interior cavity space between the two vertical upright pieces provides a thermal break for energy efficient construction. This space can be filled with insulation as well as providing room for in-wall wiring, plumbing, etc. The spacer blocks are also usable for attaching wiring to the studs.
ABSTRACT

Application No.: United States of America (60/749,665)  
Canada (2,539,733)

Title: THERMAL BREAK STRUCTURAL STUD

Inventors: Wedel, Dean; Nusz, David

This invention is a structural building stud that provides interior cavity space for insulation. It also affords construction time savings for in-wall infrastructure systems such as wiring, plumbing, telephone, networking, etc.

The common building method is to use solid lumber studs which have the thermal characteristics of conducting thermal energy between the separated air spaces. This invention breaks the conductivity of the two wall surfaces and also provides time savings during the construction period by affording the interior cavity space for in-wall infrastructure. Building corners and spaces behind partition ties are easily assessable for a complete insulation barrier.

This invention is comprised of two vertical upright pieces separated by additional spacer blocks to maintain consistent cavity. These pieces are connected by gang-nail plates, nails, screws, glue or other fasteners or methods.

The interior cavity space between the two vertical upright pieces provides a thermal break for energy efficient construction. This space can be filled with insulation as well as providing room for in-wall wiring, plumbing, etc. The spacer blocks are also usable for attaching wiring to the studs.
PROVISIONAL PATENT APPLICATION FOR
A THERMAL BREAK STRUCTURAL STUD

This invention is a structural building stud that provides interior cavity space for insulation. It also affords construction time savings for in-wall infrastructure systems such as wiring, plumbing, telephone, cable-tv, etc).

The common building method is to use solid lumber studs which have the thermal characteristics of conducting thermal energy between the separated air spaces. This invention breaks the conductivity of the two wall surfaces and also provides time savings during the construction period by affording the interior cavity space for in-wall infrastructure.

I have included 1 drawing sheet which comprises 2 images:
- FIG. A – is a perspective view of the invention.
- FIG. B – is an elevated front view of the same.

This invention is comprised of two vertical lumber pieces (FIG. A item 1) separated by lumber spacer blocks (FIG. A item 2) to maintain consistent cavity. These pieces are connected by gang-nail plates, nails, screws or other fasteners (FIG. A item 3).

The interior cavity space between the two vertical lumber pieces (FIG. A item 1) provides a thermal break for energy efficient construction. This space can be filled with insulation as well as providing room for in-wall wiring, plumbing, etc. The lumber spacer blocks (FIG. A item 2) are also usable for attaching wiring to the studs.

The inventors have alternative methods of embodying this invention as described below:
- The spacer blocks (FIG. A item 2) can be extruded polystyrene, plastic, or a mix the same.

Thermal Break Structural Stud - Dean Wedel (Page 1 of 1)
CLAIMS

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Title: THERMAL BREAK STRUCTURAL STUD

Inventors: Wedel, Dean; Nusz, David

It is to be understood that the present invention encompasses any and all embodiments within the scope of the following claims.

I / We claim:

A structural building component comprising:

(1) a thermal break between the wall surfaces that affords outstanding resistance to heat energy migration.

(2) in-wall cavity space that facilitates insulating the structure with a continuous and unbroken layer of insulating matter.

(3) an open wall cavity area that aids the installation of in-wall infrastructure systems such as electrical wiring, plumbing, telephone, networking cables, etc.

(4) superior structural strength characteristic that are greater than traditionally used diminishmental lumber of comparable size.

(5) the spacer blocks, if included, may be lumber, extruded polystyrene, plastic, metal, or a mix of the same.

(6) the method of fastening the parts need to construct this invention may facilitate gang-nail plates, nails, screws, glue(s), or other attaching methods.