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(54) ADJUSTMENT MECHANISM

(71) We, OWENS-CORNING FIBERGLAS CORPORATION a Corporation organised and existing under the laws of the state of Ohio, of Fiberglas Tower, Toledo, Ohio 43659, United States of America, do hereby declare the invention, for which we pray that a patent may be granted to us and the method by which it is to be performed, to be particularly described in and by the following statement:-

This invention relates to adjustment mechanisms.

In one of its more specific aspects, this invention provides apparatus which enables minute repositioning by use of a bi-sectionally threaded screw.

Need for mechanisms which enable minute repositioning of pieces of apparatus relative to each other is well known. One particularly important need for such a mechanism is in the glass fiber production industry wherein minute repositioning of finshield cooling devices relative to the bushing from which the fibers are drawn is of extreme importance. Frequently, it has been found that attempts at a repositioning of the finshield relative to the bushing cannot be accomplished in sufficiently small increments. Relatedly, it has been found that frequently once repositioning has been accomplished, the relative position of the finshield and bushing is gradually altered by vibratory effects. The apparatus of this invention solves these problems.

According to this invention, there is provided a stream feeder for use in glass fibre manufacture having orifices in its floor section and a plurality of thin members each extending between two rows of orifices and spaced below the feeder floor, wherein each thin member is adjustably mounted in proximity to the stream feeder by means of an adjustable mounting, the adjustable mounting comprising:

(a) a first member having a threaded

section,

(b) a second member having a threaded section, said second section member being movably connected to said first member; and

(c) a screw member positioned between said first and said second member, said screw member having upper and lower threaded portions, said upper threaded portion engaging the threaded section of said first member and said lower threaded portion engaging the threaded section of said second member, the threads of said upper threaded portion having a pitch unlike the pitch of the threads of said lower threaded portion.

Preferably a stream feeder as described above in which the upper threaded portion of said screw member has a smaller pitch than the lower threaded portion of said screw member.

The apparatus of this invention will be more easily understood if explained in conjunction with the drawings in which:-

Figure 1 depicts a side view in elevation of the apparatus of this invention; and,

Figure 2 depicts a front view in elevation of this invention.

Referring now to Figures 1 and 2, there are shown object 1 and object 2, in this instance, a bushing and finshield, respectively, it being desired to alter the distance 60 therebetween by means of adjustment mechanism 3.

Adjustment mechanism 3 is comprised of three principal parts, first riser plate-like member 4, second plate-like member 5 and screw 6 positioned therebetween.

First riser member 4 is adapted at its upper end with suitable connection means for attaching to the object to be moved, for example, by means of connection 7. The first member, preferably, has an outwardly projecting, threaded section 8. The first member is bored in its upper section for the

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7. A stream feeder according to claim 1 substantially as described herein with reference to the accompanying drawing.

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