

No. 668,684.

Patented Feb. 26, 1901.

G. KELLY.

INSULATING AND FIREPROOF SHEETING.

(Application filed Aug. 4, 1900.)

(No Model.)

Fig. 1.

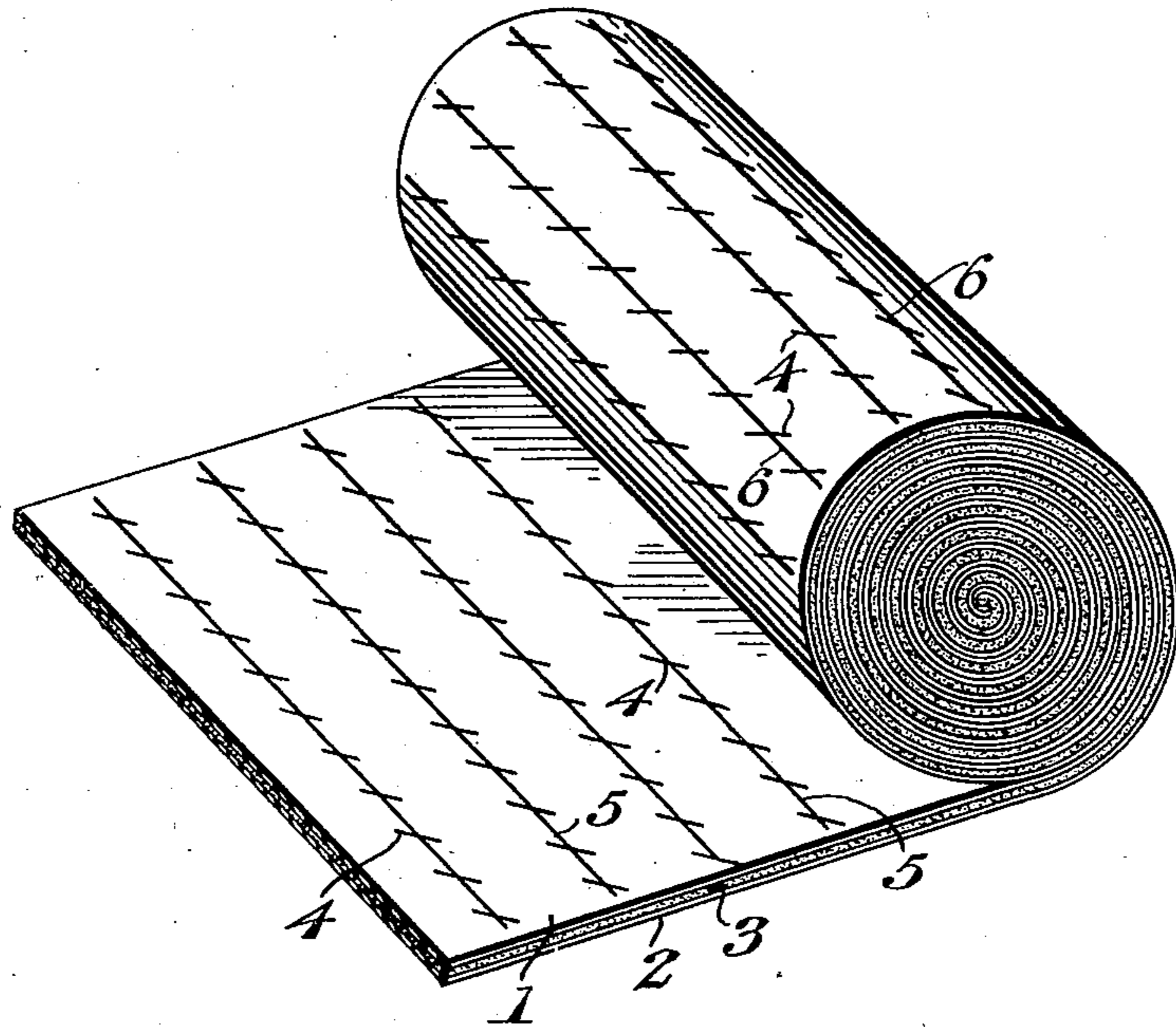


Fig. 2.

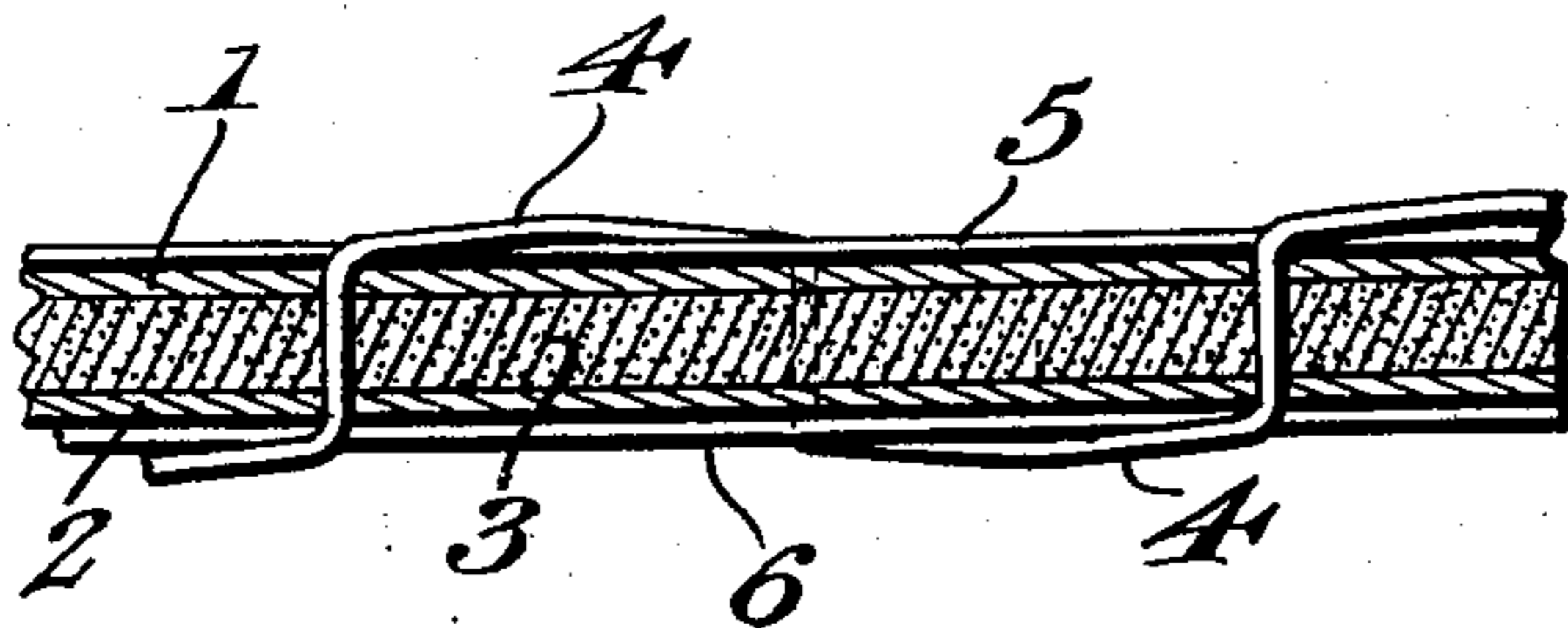
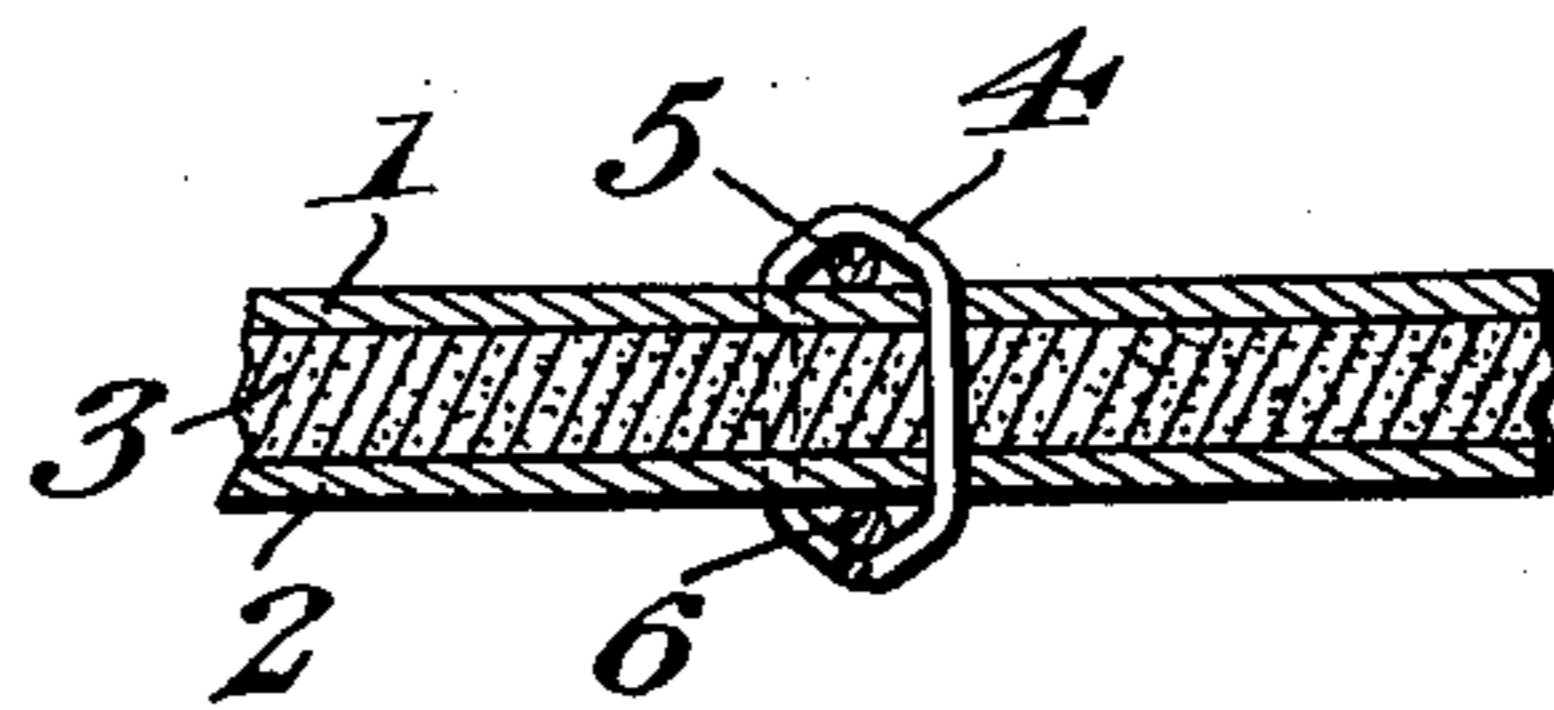


Fig. 3.



George Kelly Inventor

Witnesses
Edwin G. McKee
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By *E. G. Siggers* Attorney

UNITED STATES PATENT OFFICE.

GEORGE KELLY, OF MINERAL POINT, WISCONSIN.

INSULATING AND FIREPROOF SHEETING.

SPECIFICATION forming part of Letters Patent No. 668,684, dated February 26, 1901.

Application filed August 4, 1900. Serial No. 25,943. (No model.)

To all whom it may concern:

Be it known that I, GEORGE KELLY, a citizen of the United States, residing at Mineral Point, in the county of Iowa and State of Wisconsin, have invented a new and useful Insulating and Fireproof Sheeting, of which the following is a specification.

This invention relates to an improved non-conductive and fireproof insulating, protecting, and deadening sheet applicable for use in many connections—as, for instance, for the insulation of partitions, for protection against fire, as a covering for boilers, lining for refrigerators, or as a deadening-sheet for floors, &c.

The object of my invention is to produce a sheet of the character specified of natural fireproof materials—as, for instance, asbestos paper and mineral-wool fiber united in layers by means of stitching of novel form designed to retain the layers without pulling through the soft material, the uniting stitching or lines of stitches being disposed and arranged in a manner to facilitate the folding or rolling of the sheets into small compass for storage or transportation.

To the accomplishment of these objects the invention consists in the combination of parts and in the peculiarities of the retaining devices hereinafter fully described, illustrated in the accompanying drawings, and defined in the appended claim.

In said drawings, Figure 1 is a perspective view of a roll of my sheeting. Fig. 2 is a detail sectional view through a fragment thereof, and Fig. 3 is a similar view taken in a plane at right angles to Fig. 2.

Referring to the numerals of reference, indicating the same part or feature in each view, 1 and 2 indicate the outside or covering layers of my sheeting, which layers are formed of thin sheets of asbestos or asbestos paper, and 3 indicates the intermediate layer or filler of fireproof fiber, preferably mineral wool. The sheeting composed of the three layers defined is provided with a longitudinal series of transversely-disposed binders embodied in the present instance in transverse lines of stitching 4. Inasmuch as the tendency of the

stitching is to pull through the soft fibrous structure of the asbestos-paper layers I prefer to employ stitching of novel form for the uniting of the several layers. I therefore preferably dispose transverse guard-wires or metallic guard-strips 5 and 6 above and below the sheeting and in position to be overwhipped by the line of stitching 4, which is of zigzag formation, as shown, so that alternate stitches will pass over the guard-wire 5 and under the guard-wire 6.

Inasmuch as it is usually desirable to employ wire for the formation of these lines of stitches, it will be seen that any other arrangement than that specified would tend to prevent the close folding or rolling of the sheeting, as such rolling or folding would necessitate the bending of the wires. It is in view of this consideration that I have arranged these retainers or lines of stitching in parallel longitudinal series and extending transversely across the sheeting from points at or adjacent to the opposite longitudinal edges thereof. It will therefore be seen, as clearly illustrated in Fig. 1 of the drawings, that the sheeting may be wound into a compact body for shipment or storage without necessity for bending the wire strands serving as binding or retaining devices and as guards for the protection of the asbestos paper.

What I claim is—

As a new article of manufacture, a sheet for insulating and fireproofing purposes composed of outer layers of asbestos paper and an intermediate filler of mineral fiber, straight metallic guard-strips disposed transversely in parallel relation upon opposite sides of the sheet and extending from edge to edge thereof, and parallel lines of zigzag stitching uniting the several layers and inclosing contiguous guard-strips at opposite sides of the strip.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

GEORGE KELLY.

Witnesses:

PHIL ALLEN, Jr.,
FRANK E. HANSCOM.