

UNITED STATES PATENT OFFICE.

JOHN G. SMITH, OF ST. LOUIS, MISSOURI.

PROCESS OF MANUFACTURING SPRING-BEDS, &c.

SPECIFICATION forming part of Letters Patent No. 422,845, dated March 4, 1890.

Application filed February 27, 1889. Serial No. 301,415. (No model.)

To all whom it may concern:

Be it known that I, JOHN G. SMITH, of the city of St. Louis, in the State of Missouri, have invented a certain new and useful Improvement in Processes of Manufacturing Spring-Beds, &c., of which the following is a full, clear, and exact description.

My invention relates to an improved method of manufacturing spring-beds, by which the article is made superior to those now manufactured and sold and by which its manufacture is cheapened.

In carrying out my improved process or method the bed is put together in the usual manner. The bed is then removed to an oven and heated to a sufficiently high degree for tempering purposes. It is then dipped into a japan bath, which serves the double purpose of tempering the metal and of japanning the bed. The next step is to remove the bed from the bath to a drying-oven, (allowing it to remain, if required, between these two stages sufficiently long for the surplus japan to drip off,) and after it has been baked and dried it is ready for the market.

By manufacturing beds under this process they can be japanned much cheaper than under the old process of japanning the springs before they are put together, and they are tempered after the work of forming and putting together the springs has been completed. The appearance of the finished article is much superior to those manufactured in the old way.

The invention might be applied to woven-wire mattresses as well as spring-beds. When applied to the mattresses, the fabric is woven in the usual way and then mounted on a metal frame that will hold it (the fabric) in position while it is being put through the process, after which it may be mounted, as usual, on a wooden frame.

As before mentioned, I am well aware that it is not new to treat single springs in a manner similar to my process for treating the whole bed, but differing materially therefrom in that in my process the springs are put together in the form of a bed, while the metal is easy to manipulate and before the springs are tempered. They are then tempered and japanned together and by the same operation, and consequently they are all subjected to an equal degree of heat, which causes them to be equally tempered, and this is an impossible result when the springs are tempered separately and at different times, and a further and greater advantage in operating upon the whole bed is that the manipulations likely to cause scars on and damage the japanning are entirely over with before the japan is put on, thus leaving the latter in perfect condition. A further advantageous result incident to my process is that the japanning will enter and fill up all chinks or crevices between the parts, which are to be avoided as much as possible in all beds, whereas if the springs were put together after they were finished these crevices would remain and afford harbors for objectionable accumulations.

I claim as my invention—

The improved process of manufacturing metallic spring-beds and woven-wire mattress fabrics herein described, the same consisting in heating the bed after it is put together to a proper degree for tempering purposes, then dipping the whole bed into a japan bath, and subsequently drying the same, substantially as and for the purpose set forth.

JOHN G. SMITH.

In presence of—

GEO. H. KNIGHT,
EDW. S. KNIGHT.