

netically arranged by the friction on the strap, or do they both contribute to the result? A. The edge is produced by abrasion. 2. What kind of a fluid dye will color the wings, of a queen bee red or some other bright color (so that she can be readily seen among the bees) without injury to her? It should be something that will not load the wings but leave them light and supple—a dye, not a paint. A. Try an alcoholic solution of the aniline dye magenta.

(28) F. J. will find the wagon wheel question fully discussed on p. 394, Vol. 39 of SCIENTIFIC AMERICAN.

## COMMUNICATIONS RECEIVED.

On Drying and Disinfecting Faecal Matter. By A. P. Mathematical Table. By H. S. P.  
How to Make an Electric Burglar Alarm. By O. P. L.  
The Use of Lines of the same Height. By K. L.  
The Game of 15. By G. C.  
On Western Adulterations. By G. T. A.  
On the Route for the Panama Canal. By H. S. B.  
On Voices of Fishes. By W. H. W.  
Sudden Death by Electricity. By H. W. F.  
On the Origin of the Atmosphere. By H. M. G.  
Who Invented the Telephone? By M. D. T.  
Maximum Sun Spot Periods. By E. J. Couch.  
On Telephone Experiments. By C. E. L.  
Singular Lunar Phenomenon. By H. P.

[OFFICIAL.]

## INDEX OF INVENTIONS

FOR WHICH

Letters Patent of the United States were  
Granted in the Week Ending

February 24, 1880,

AND EACH BEARING THAT DATE.

[Those marked (r) are reissued patents.]

A complete copy of any patent in the annexed list, including both the specifications and drawings, or any patent issued since 1867, will be furnished from this office for one dollar. In ordering please state the number and date of the patent desired, and remit to Munn & Co., 37 Park Row, New York city.

Adjustable bracket, C. A. Blessing	224,863
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Bed, J. H. Archer, San Francisco, Cal.	
Cast iron, converting into wrought iron, L. D. Chapin, Chicago, Ill.	
Cereals, products from, Cereal Manuf. Co., N. Y. city.	
Cream collector, P. G. Peltret, San Francisco, Cal.	
Middlings purifier, T. B. Osborne et al., New Haven, Ct.	
Nut lock, I. D. Beach et al., Millersville, Mo.	
Speed regulator for steam engines, J. B. Sheppard, Philadelphia, Pa.	
Telegraph wire, manuf. of, A. K. Eaton, Brooklyn, N. Y.	
Telegraph, preventing escape of currents, C. E. Chinnock, Brooklyn, N. Y.	
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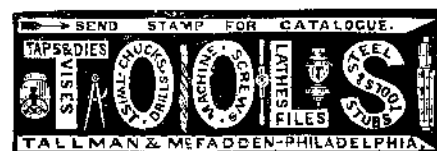
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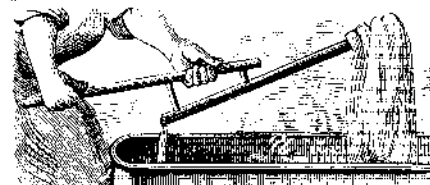
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